

66
COUNTY OF ANGUS



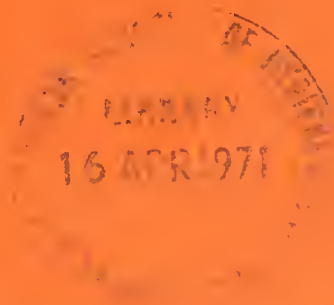
Annual Report

OF THE

MEDICAL OFFICER OF HEALTH

AND OF THE

COUNTY SANITARY INSPECTOR



FOR THE YEAR

1969

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PUBLIC HEALTH DEPARTMENT,
RAVENSWOOD,
FORFAR. JANUARY, 1971.

To:-

The County Council of Angus
The Town Councils of Brechin, Carnoustie, Forfar, Kirriemuir,
Monifieth and Montrose.
The Scottish Home and Health Department.

Ladies and Gentlemen,

In accordance with the requirements of the Scottish Home and Health Department for Scotland Circular No. 2/1969, I herewith submit my Report on the Health of the County during the year 1969 together with a Report on the School Medical Service for the year ending 31st July, 1969.

I am,
Your obedient Servant,
(Signed) W. BURNETT,
Medical Officer of Health.

STAFF OF PUBLIC HEALTH DEPARTMENT

Medical Officer of Health	. . . Walter Burnett, M.B., Ch.B., D.P.H.
Depute Medical Officer of Health	. . . Margaret D. Hird, M.B., Ch.B., D.P.H.
Departmental Medical Officers	. . . Jessie C.M. Learmonth, M.B., Ch.B., D.P.H. Frederick R. Hood, M.B., Ch.B.
Chief Dental Officer	. . . Douglas N. Anderson, L.D.S.
Dental Officers	. . . Eua A. Millar, L.D.S. Elizabeth J. Mann, L.D.S. Joseph P. Mayo, L.D.S. Keith C. Forsey, B.D.S. (Commenced August, 1969)
Chief Chiropodist	. . . Leslie F. Brash, M.Ch.S., S.R.Ch.
Senior Chiropodists	. . . Mrs. S. Anderson, M.Ch.S., S.R.Ch. Mrs. M. Harley, M.Ch.S., S.R.Ch. David J.P. Neave, M.Ch.S., S.R.Ch.
Superintendent of Nurses	. . . Elizabeth M. Proctor, R.G.N., S.C.M., Q.N., H.V.
Depute Superintendent of Nurses	. . . Christine R. Playfair, R.G.N., R.S.C.N., S.C.M., Q.N., H.V.
Senior Occupational Instructor	. . . Mrs. Edith Robertson
Occupational Instructor	. . . Mrs. Edith Hay
County Sanitary Inspector	. . . Robert A. Taylor
Depute County Sanitary Inspector	. . . Thomas Gordon
Depute Master of Works	. . . William Henderson
Sanitary Inspectors	. . . Laurence Borthwick James Sommerville Robert Ferguson
Building Inspector	. . . George Milne
Milk Officer	. . . Christian J.W. Gall, B.Sc., (Agric.) N.D.D.
Dental Attendants	. . . Davina S. Strachan (Resigned July, 1969) Gloria A. Grossi Gillian Esplin Margaret A. Hanlon Barbara Milne Rachael J. McIntosh (Commenced August, 1969)

NURSING STAFF

HEALTH VISITORS/SCHOOL NURSES

Annie J. Downie, R.G.N., S.C.M., H.V.	...
Dorothy Haxton, R.G.N., R.F.N., H.V.	...
Eleanor Grieve, R.G.N., R.F.N.	...
Anne Gray, R.G.N., H.V.	...
(Leave of absence from 1st July, 1969 relieved by Elizabeth Paterson, R.G.N., S.C.M., H.V.)	
Patricia Malloch, R.G.N., S.C.M., H.V.	...
Ann Herschell, R.G.N., S.C.M., H.V.	...
Margaret Anderson, R.G.N., S.C.M., H.V.	...

NURSING DISTRICT

Brechin Burgh
Forfar Burgh
Forfar Burgh
Carnoustie Burgh
Monifieth Burgh
Montrose Burgh
Montrose Burgh

DISTRICT NURSE/MIDWIFE/HEALTH VISITOR

Phyllis Donald, R.G.N., S.C.M., Q.N., H.V.	...
Marjorie Ogilvie, R.G.N., R.F.N., S.C.M., Q.N.	
Helen Kidd, R.G.N., S.C.M., Q.N.	...
Ann Strathearn, R.G.N., S.C.M., Q.N.	...
Robina Lindsay, R.G.N., S.C.M., Q.N.	...
Elizabeth Budka, R.G.N., S.C.M., Q.N.	...
Jane Edwards, R.G.N., S.C.M., Q.N.	...
Susanne Kranold, R.G.N., S.C.M., Q.N.	...
Jessie A. Bruce, R.G.N., S.C.M., Q.N., H.V.	...
Elizabeth Topen, R.G.N., S.C.M., Q.N., H.V.	
Hannah Mitchell, R.G.N., S.C.M., Q.N.	...
Isobel Henderson, R.G.N.	...
Jessie McDougall, R.G.N., S.C.M., Q.N.	...
Elizabeth Williamson, R.G.N., S.C.M., Q.N.	...
Ann Beattie, R.G.N., S.C.M., Q.N.	...
Rosetta Ogilvie, R.G.N., S.C.M., Q.N., H.V.	
Elizabeth McKelvie, R.G.N., S.C.M., Q.N.	...
Anna Ogilvie, R.G.N., S.C.M., Q.N.	...

NURSING DISTRICT

Airlie
Arbirlot
Auchterhouse
Careston
Edzell
Friockheim
Hillside
Inverarity
Inverkeilor
Kirriemuir
Kirriemuir Landward (Retired 30th August, 1969)
Kirriemuir Landward - (Temporary Relief from 1st September, 1969)
Letham
Monifieth
Monikie
Murroes
Newtyle
Southesk

DISTRICT NURSE/MIDWIFE

Catherine MacKenzie, R.G.N., S.C.M., Q.N.	
Grace Stewart, R.G.N., S.C.M., Q.N.	...

NURSING DISTRICT

Brechin
Brechin

Margaret Forrest, R.G.N., S.C.M., Q.N.	...	Carnoustie
Alexa Robertson, R.G.N., S.C.M.	...	Carnoustie
Marion Goldie, R.G.N., S.C.M., Q.N.	...	Forfar

DISTRICT NURSES

Margaret R. Bell, R.G.N. (Part-time)	...	Forfar
Margaret Thornton, R.G.N.	...	Montrose
Joan Stewart, R.G.N.	...	Montrose
Grace Williams, R.G.N.	...	Montrose

NURSING DISTRICT**CLERICAL STAFF**

Margaret D. McIntosh	...	Senior Clerkess
Margaret Davidson	...	Clerkess/Typist
Anne C. Lowson (Archibald from June, 1969)	...	Clerkess/Typist
Nancy Hudghton	...	Clerkess/Typist (Resigned April, 1969)
Jennifer A. Millar	...	Clerkess/Typist (Resigned) November, 1969
Anne T. Webster	...	Clerkess/Typist
Ann Flett	...	Clerkess/Typist (Commenced December, 1969)
Helen J. Urquhart	...	Junior Clerkess/Typist (Commenced March, 1969)
Patricia A. Henderson	...	Junior Clerkess/Typist (Resigned March, 1969)
Rosemary Vorm	...	Junior Clerkess/Typist
Patricia Salmond	...	Junior Clerkess/Typist
Kathryn E. Ferrier	...	Junior Clerkess/Typist (Commenced June, 1969)
Ruth J. Fraser	...	Clerkess/Typist (Sanitary Department)
Barbara M. Martin	...	Clerkess/Telephonist (Sanitary Department) (Resigned May, 1969)
Brenda M. Graham	...	Junior Clerkess/Typist/ Telephonist (Sanitary Department) (Commenced June, 1969)

CLINIC SESSIONS

FORFAR BURGH

at Ravenswood

Monday	9.30 a.m.	Minor Ailments (School Medical Service)
Monday	9 - 4 p.m.	Speech Therapy (in abeyance, no Speech Therapist)
Monday (by arrangement)	2.30 p.m.	Specialist Clinic (Mental Deficiency)
Tuesday	9.30 - 12.30 p.m.	Physiotherapy Treatment
Tuesday (by arrangement)	9.00 a.m.	Specialist Clinic (Eye)
Tuesday - 2nd	9.30 - 12.00 noon	Specialist Clinic (Orthopaedic) (Monthly)
Tuesday	2.00 - 4.00 p.m.	Child Welfare
Wednesday	2.30 - 4.30 p.m.	Physiotherapy Treatment
Thursday	9.30 a.m.	Minor Ailments (School Medical Service — Nurses Clinic)
Thursday	2.30 - 3.15 p.m.	Mothercraft
Thursday	3.15 - 4.15 p.m.	Antenatal Relaxation Class

BRECHIN BURGH

at Damacre Road

Monday	9.30 a.m.	Minor Ailment (School Medical Service — Nurses Clinic)
Monday (by arrangement)	2.30 p.m.	Specialist Clinic (Mental Deficiency)
Tuesday	9.00 - 12.00 noon	Speech Therapy (Welfare Office, Panmure Street), (in abeyance no Speech Therapist)
Wednesday	2.00 - 4.00 p.m.	Child Welfare
Wednesday	10.30 a.m.	Minor Ailments (School Medical Service)
Thursday (by arrangement)	9.30 a.m.	Specialist Clinic (Eye)

MONTROSE BURGH

at Esk House

Monday	9.30 a.m.	Minor Ailments (School Medical Service — Nurses Clinic)
Monday (by arrangement)	2.30 p.m.	Specialist Clinic (Mental Deficiency)
Tuesday	9.00 - 4.00 p.m.	Speech Therapy (in abeyance, no Speech Therapist)
Wednesday (by arrangement)	1.00 p.m.	Specialist Clinic (Eye)

MONTROSE BURGH (continued)

Wednesday	11.30 a.m.	Minor Ailments (School Medical Service)
Thursday (by arrangement)	9.30 a.m.	Specialist Clinic (Eye)
Friday	2.00 - 4.00 p.m.	Child Welfare
Tuesday	2.00 p.m.	Baby Weighing Clinic
Thursday	2.30 - 3.30 p.m.	Mothercraft
Thursday	3.00 - 4.00 p.m.	Antenatal Relaxation Class

CARNOUSTIE BURGH

at 126 High Street

Thursday	2.00 - 4.00 p.m.	Child Welfare
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at Carnoustie School

Thursday	9.00 - 12.00 noon	Speech Therapy (in abeyance, no Speech Therapist)
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MONIFIETH BURGH

at Seaview

Monday	2.00 - 4.00 p.m.	Child Welfare
Thursday	9.00 - 12.00 noon	Speech Therapy

ARBROATH CLINIC

at 7 Hill Street

Monday	2.30 p.m.	Minor Ailments (School Medical Service – Nurses Clinic)
Monday	2.30 p.m.	Specialist Clinic (Mental Deficiency)
Tuesday (by arrangement)	2.00 p.m.	Specialist Clinic (Eye)
Tuesday	2.00 - 4.30 p.m.	Physiotherapy Treatment
Wednesday - 1st, 3rd and 4th	9.30 - 12.00 noon	Specialist Clinic (Orthopaedic)
Wednesday (by arrangement)	1.00 p.m.	Specialist Clinic (Eye)
Thursday	2.00 p.m.	Minor Ailments (School Medical Service – Nurses Clinic)
Thursday (by arrangement)	9.30 a.m.	Specialist Clinic (Eye)
Friday	9.30 - 4.30 p.m.	Physiotherapy Treatment
Friday	9.00 - 4.00 p.m.	Speech Therapy
Saturday (by arrangement)	9.30 - 12.00 noon	Physiotherapy Treatment

Mothers Advisory Clinics (Birth Control) are held at Brechin, Carnoustie, Forfar, Monifieth and Montrose by appointment with cases referred by family Practitioners.

Cervical Cytology sessions are held in the Burghs of Brechin, Carnoustie, Forfar, Monifieth and Montrose as required. All cases are seen by appointment.

Chiropody Clinics are held by appointment at:-

7 Hill Street	Arbroath
Damacre School Clinic . . .	Brechin
Clinic, 126 High Street . . .	Carnoustie
Ravenswood Clinic	Forfar
Esk House Clinic	Montrose
Inglis Memorial Hall	Edzell
Church Hall	Ferryden
Town Hall	Kirriemuir
Clinic, Seaview School . . .	Monifieth
British Legion Hall	Muirhead
The Hall	Tealing
Nurses Homes	Hillside, Letham, Newtyle, Glamis and Friockheim.

Home visits are paid to Burgh cases who are unable to attend the Clinic and to country cases where there is no convenient Clinic or suitable accommodation available in the District Nurse's house serving the area.

VITAL STATISTICS

The Registrar General has estimated the mid-year population of the County to be 73,697 which compares with 76,197 in the 1961 census. The following table gives the 1961 census population with the 1969 estimated population.

				<u>1961</u>	<u>1969</u>
Burgh of Brechin	...	...	...	7198	6775
Carnoustie	...	...		5516	5663
Forfar	...	...	...	10252	9870
Kirriemuir	...	...	...	3476	4107
Monifieth	...	...	...	3488	5170
Montrose	...	...	...	<u>10793</u>	<u>10269</u>
Total Burghal	...	...	...	40723	41854
Landward	...	...	...	<u>35474</u>	<u>31843</u>
Total County	...	...	...	<u><u>76197</u></u>	<u><u>73697</u></u>

BIRTHS

The live births allocated to the County during 1969 numbered 1168 giving a birth rate of 15.8 which compares with 1144 and a rate of 15.4 in 1968.

The following table details the live births according to the area of the mother's residence. The number of births rose by 24 in the County during the year from 1144 in 1968 to 1168 in 1969. During this year there has been an estimated decrease in the population of the Landward Area and the Burgh of Montrose and in both there has been a decrease in the number of births. There have been estimated population increases in the Burgh of Brechin, Carnoustie, Forfar, Kirriemuir and Monifieth and an increase in the number of births in these Burghs.

			No. of Births (live) Corrected for Mother's Residence
Landward	...	...	501
Burgh of Brechin	...	...	87
Carnoustie	...		104
Forfar	...	...	155
Kirriemuir	...		73
Monifieth	...		100
Montrose	...		<u>148</u>
			<u><u>1168</u></u>

STILL BIRTHS

After correction for transfer there were 12 still births allocated to the County in 1969 giving a rate of 10 per 1,000 births, which compares with

6 still births and a rate of 5 in 1968. Of the 12 still births in 1969, all occurred in hospitals or maternity homes.

DEATHS

After correction for transfer there were during the year 1002 deaths of persons normally resident in the County giving a death rate of 13.6 per 1,000 of the population compared with 937 deaths and a rate of 12.6 in 1968.

Age group distribution of deaths was as follows:-

Under 1 year	...	...	...	13
From 1 - 4 years	...	...	...	1
5 - 9 years	...	...	...	2
10 - 14 years	...	...	...	1
15 - 24 years	...	...	...	10
25 - 34 years	...	...	...	10
35 - 44 years	...	...	...	19
45 - 54 years	...	...	...	61
55 - 64 years	...	...	...	145
65 - 74 years	...	...	...	263
75 - 84 years	...	...	...	322
85 years and over	...	...	...	155

During the year the diseases responsible for the largest number of deaths were:-

Diseases of the Heart and Circulation	...	367
Diseases of the Nervous System	...	179
Malignant Disease (including Cancer of the Lung 34)	...	269
Diseases of the Respiratory System	...	114
Diseases of the Digestive System	...	32
Tuberculosis	...	4

There were 51 deaths from violence in 1969, including 9 by suicide compared with 7 in 1968, 13 by motor vehicles compared with 9 last year. The number of deaths due to accidents in the home, 14, showed an increase from 12 in 1968 and 8 in 1967.

INFANT MORTALITY

During the year 1969 there were 13 deaths in children under 1 year giving an infant mortality rate of 11 per 1,000 live births which compares with 10 deaths and a rate of 9 in 1968, and 19 deaths and a rate of 16 in 1967. There were 8 deaths of children under 4 weeks, giving a neonatal death rate of 7 per 1,000 live births.

Cause of Death	Under 4 Weeks	4 Weeks to 1 year
Birth injury, difficult labour and other anoxic and hypoxic conditions	2	

Cause of Death (continued)	Under 4 Weeks	4 Weeks to 1 year.
Malignant neoplasm of Lymphatic and Haematopoietic system	1	-
Other malignant Neoplasms	-	1
Other General Diseases	-	1
Meningitis	-	1
Pneumonia	1	-
Digestive Diseases	-	1
Congenital Anomalies of Circulatory systems	1	1
Congenital Anomalies of the Nervous system	1	-
Other causes of perinatal mortality	2	-
	<hr/>	<hr/>
TOTAL	8	5
	<hr/>	<hr/>

DEATHS FROM TUBERCULOSIS

There were 4 deaths from all forms of tuberculosis in 1969, compared with 0 deaths in 1968.

SENILE DEATHS

740 persons died after their 65th birthday, giving a senile death rate of 73.85 per 100 deaths.

MATERNAL DEATHS

There were no deaths from child birth in 1969.

LOCAL AUTHORITY FUNCTIONS

ANGUS BIRTHS

The number of babies born in the County was 536 of which 1 at Charleton Maternity Home was a Still Birth.

Born	At Home	FyfeJamieson	Charleton	Stracathro	Total
	9	269	257	1	536
Percentage	1.7	50.2	47.9	0.2	100

After correction for usual residence 1168 live births and 12 still births were allocated to the County.

Births transferred to Angus occurred in the following hospitals:-

Dundee Royal Infirmary	-	352 including 10 still births
Maryfield Hospital	-	240 including 1 still birth
Arbroath Infirmary	-	105
Blaigowrie Cottage Hospital	-	14

Perth Royal Infirmary	-	6
Craigtoun, St. Andrews	-	1
Simpson Maternity Hospital, Edinburgh	-	2
Lakenheath, Surrey	-	2
Aberdeen Maternity Hospital	-	8

Throughout the year the County Council employed 22 full-time District Nurses who did both home nursing and midwifery.

3,481 antenatal visits were made to 982 expectant mothers by District Nurse/Midwives or Health Visitors.

The medical supervision of the Midwives is carried out by the Medical Officer of Health and the non-medical supervision by the County Nursing Superintendent in terms of the 1915 Midwives Act.

CARE OF MOTHERS AND YOUNG CHILDREN

After the birth of the child the District Nurse or Health Visitor visits to give advice about the care of the child and the welfare of the mother, and also to carry out surveillance of the child's development. At these visits immunisation is recommended.

MATERNAL AND CHILD WELFARE VISITS, 1969

	No. of Cases	No. of Visits
Expectant Mothers	982	3,481
Children Born in 1969	1322	10,412
Children Born in 1968	1970	9,574
Children Born in 1964-67	4512	11,169

CHILD WELFARE

Child Welfare Clinic Sessions are held in the Public Health Clinics twice a week at Montrose and Monifieth, and once a week at Forfar, Brechin and Carnoustie. In Kirriemuir weekly clinics are held in the Duty Room of the District Nurse's House, Kirriemuir. The Medical and Nursing Staff at these Clinics assess the children's development and progress and, where necessary, initiate investigation and treatment, as well as giving advice. Immunisation is carried out against Diphtheria, Whooping Cough, Tetanus, Poliomyelitis, Smallpox and Measles, except at Kirriemuir. During 1969 a total of 1668 children attended on 8953 occasions as follows:-

CHILD WELFARE CLINICS — NUMBER OF CHILDREN ATTENDING

	Born 1969	Born 1968	Born 1964-67	Total Attendances
Brechin	67	86	98	2164
Carnoustie	99	56	86	1343
Forfar	97	152	89	1263
Montrose	163	137	190	2722
Monifieth	77	97	174	1461
TOTAL	503	528	637	8953

Mothercraft sessions for expectant mothers especially those expecting a first baby, were held throughout the year at Montrose, Forfar and Carnoustie.

	No. of Mothers attending	No. of Attendances
Forfar	34	193
Montrose	57	208
Carnoustie	7	19
	<u>98</u>	<u>420</u>

"AT RISK" REGISTER

This is a Register of Pre-School Children who may develop physical or mental defects as a result of known pre-natal, intra-natal or post-natal factors. On 31st December 1969 the number of children on the Register were:-

Born in 1969	-	250
Born in 1968	-	101
Born in 1967		50
Born in 1966	-	42
Born in 1965	-	<u>34</u>
Total on Register	-	<u>477</u>

HANDICAP REGISTER

This is a register of Children up to 16 years of age (inclusive) who are physically or mentally handicapped. At the end of 1969 there were on the Register 134 children in Angus (excluding the Burgh of Arbroath). Of these 73 were boys and 61 were girls. The Arbroath Burgh Handicapped Register is kept by the Arbroath Medical Officer of Health with whom Angus School Medical Service exchange information. There were 40 children, of whom 18 were boys and 22 were girls, on the Arbroath Handicapped Register on 31st December, 1969.

HANDICAPPED REGISTER — ANGUS

Number on Register as at 31st December, 1969

Main Disability by Age and Sex

		Under 1	1 to under 2	2 to under 3	3 to under 4	4 to under 5	5 to under 10	10 to under 15	15 and over	Total
Partially Deaf	M	-	-	1	-	-	1	1	-	3
	F	-	-	-	-	1	1	2	1	5
Partially Sighted	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	1	-	1
Mental Defect - Educable	M	-	-	-	-	-	2	10	2	14
	F	-	-	-	-	-	1	10	1	12
Mental Defect - Trainable	M	1	-	-	2	1	3	3	5	15
	F	-	-	-	-	-	6	8	1	15
Mental Defect - Not Trainable	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	2	-	2
Mental Defect - Undeter- mined	M	1	1	-	1	1	4	2	-	10
	F	-	-	-	-	-	3	-	-	3
Brain Damage Cerebral Palsy	M	-	1	-	1	2	2	2	1	9
	F	-	1	-	-	-	-	4	1	6
Other Brain Damage	M	-	-	-	-	-	1	1	-	2
	F	1	-	-	-	1	-	1	-	3
Epilepsy	M	-	-	-	-	1	-	1	-	2
	F	-	-	-	-	-	-	1	-	1
Spina Bifida/ Hydroce- phalus	M	-	-	-	-	1	-	-	-	1
	F	-	1	-	1	2	-	2	-	6
Neuro- Psychiatric Defect	M	-	-	-	-	-	1	-	-	1
	F	-	-	-	-	-	-	-	-	-
Heart Disease	M	-	-	1	-	-	-	1	-	2
	F	-	2	-	1	-	-	-	-	3
Diabetes	M	-	1	-	-	2	1	1	-	5
	F	-	-	-	-	-	-	-	-	-
Other Meta- bolic Conditions	M	-	-	1	-	-	-	-	-	1
	F	-	1	-	-	-	-	-	-	1
Other	M	-	2	2	-	-	1	3	-	8
	F	-	1	-	-	-	2	-	-	3
Total	M	2	5	5	4	8	16	25	8	73
	F	1	6	-	2	4	13	31	4	61

HANDICAPPED REGISTER – ARBROATH

Number on Register at 31st December, 1969

Main Disability by Age and Sex

		Under 1	1 to under 2	2 to under 3	3 to under 4	4 to under 5	5 to under 10	10 to under 15	15 and over	Total
Partially Deaf	M	-	-	1	-	-	2	1	-	4
	F	-	-	-	-	-	1	1	-	2
Partially Sighted	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	1	-	-	1
Mental Defect - Educable	M	-	-	-	-	-	2	2	-	4
	F	-	-	-	-	-	1	5	1	7
Mental Defect - Trainable	M	-	-	-	-	1	3	2	-	6
	F	-	-	-	-	-	-	1	1	2
Brain Damage Cerebral Palsy	M	-	-	-	-	-	-	1	-	1
	F	-	-	-	-	-	2	1	-	3
Other Brain Damage	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	1	-	1
Spina Bifida/ Hydroce- phalus	M	-	-	1	-	-	-	-	-	1
	F	-	-	1	1	-	-	-	-	2
Neuro- Psychiatric Defect	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-	1	1
Spinal Defect (Not S. Bifida)	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	1	-	-	1
Paralysis	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	1	-	1
Orthopaedic	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	1	-	1
Heart Disease	M	-	-	1	-	-	1	-	-	2
	F	-	-	-	-	-	-	-	-	-
Total	M	-	-	3	-	1	8	6	-	18
	F	-	-	1	1	-	6	11	3	22

DENTAL CARE

Under the Local Authority's scheme for the dental care of expectant and nursing mothers and of pre-school children 58 cases were treated during the year by the County Council's Dental Staff as an extension of the School Dental Service. 3 of the cases were expectant mothers, 2 were nursing mothers and 53 were children under school age.

Details of Treatment

Pre-School Children -

Fillings in Deciduous Teeth	...	...	...	60
Extractions of Deciduous Teeth	...	...	...	50
Other Operations	...	...	...	10
General Anaesthetics	...	...	...	7

Expectant and Nursing Mothers

Fillings in Permanent Teeth	...	...	...	12
Extractions of Permanent Teeth	...	...	...	3
Other Operations	...	...	...	8
Dentures Supplied	...	...	...	-

ORTHOPAEDIC CARE

Under the scheme 837 children under school age were treated for various disabilities as shown in the table:

	Angus County	Arbroath Burgh
No. of cases seen by Specialist	333	504
No. of cases referred for hospital treatment	35	-
No. of cases receiving Physiotherapy treatment	46	64

OPHTHALMIC CARE

During 1969, 56 children under 5 years of age were referred to the Eye Specialists. 30 of these children were new cases and 26 were re-called.

MOTHERS' ADVISORY SERVICE

Advisory Clinics were held at Brechin, Carnoustie, Forfar, Monifieth and Montrose. Details of the numbers of Clinics held and of attendances are:-

	No. of Sessions	No. of New Cases Seen	Cases Re-examined	Total Attendances
Brechin	1	2	4	8
Carnoustie	4	5	5	14
Forfar	6	17	22	47
Monifieth	3	4	8	14
Montrose	6	12	17	33
TOTAL	20	40	56	116

WELFARE FOODS

The scheme continued in 1969 as detailed in previous reports.

Distribution of Welfare Foods during 1969 at Clinics and by District Nurses

No. of Packets Dried Milk	No. of bottles of		No. of Packets of Vitamin Tablets
	Cod Liver Oil	Orange Juice	
4171	1276	18439	1132

HEALTH VISITING

There were seven full-time Health Visitors employed on all Health Visiting duties including Child Welfare, Tuberculosis and School Health Work. Twenty-two District Nursing Sisters were employed in combined duties of Home Nursing, Midwifery and Health Visiting. The full-time Health Visitors cover the Burghs of Forfar, Brechin, Montrose, Carnoustie and Monifieth. Health Visitors are concerned with the care of expectant and nursing mothers and young children as described in the last section, the care of the tuberculous and their family contacts, the School Nursing service, which includes school visits to assist at annual medical inspections and monthly visits for cleanliness inspection of school children, and, where necessary, the follow-up by home visits of any children found to be dirty, verminous or inadequately clothed. Supervisory visits to the aged are paid in connection with the Home Help Service. The Burgh Health Visitors also staff the clinic sessions held in the Burgh clinics under the various schemes of the Local Authority. In some areas the Health Visitor and District Nursing Sister attend the General Practitioners' Clinics held at their Surgeries.

In 1969 Health Visitors paid 51202 health visits which are classified as under:-

	No. of Cases	No. of Visits
1. Expectant Mothers	982	3481
2. Children Pre-School		
Born in 1969	1322	10142
Born in 1968	1970	9574
Born in 1964-67	4512	11169
	———— 7804	———— 30885
3. School Children	686	1227
4. Persons aged 65 and over	1184	10178
Includes those visited at request of G.P. or Hospital	56	292

	No. of Cases	No. of Visits
5. Mental Health – Care and After-Care	139	690
Includes those visited at request of G.P. or Hospital	<u>40</u>	<u>313</u>
6. Other Hospital After Care	25	399
Includes those visited at request of G.P. or Hospital	<u>18</u>	<u>376</u>
7. Tuberculous Households	261	582
8. Infectious Disease	100	307
9. Home Help Supervision etc.	389	2358
10. Miscellaneous	462	1094
	<u>12032</u>	<u>51201</u>

This summarises all the work of the health visiting staff – full-time and those undertaking the combined duties of nursing, midwifery and health visiting. The number of visits paid to the elderly was 10178 in 1969 compared with 11232 in 1968 and the supervisory visits in connection with the home help scheme, 2358 visits in 1969 and 3848 in 1968.

HOME NURSING

The County Council employs 25 full-time nurses and one part-time nurse in the domiciliary nursing service, and in addition, by arrangement with Perthshire County Council, the Alyth District Nurse undertakes the combined duties of nursing, midwifery and health visiting in the Glenisla area of Angus. Of the 25 full-time district nurses, 16 are engaged in the combined duties of nursing, midwifery and health visiting, 6 are engaged in general nursing and midwifery and 3 in general nursing duties only. The part-time nurse gives equivalent of four hours daily in Forfar burgh.

During 1969 a total of 2595 cases (190 under 5 years, 879 between the ages of 5 and 65 years, and 1526 over 65 years) were seen by the district nurses under the domiciliary nursing service, involving 53876 visits. In 1968, 2544 cases were visited on 53263 occasions. As in previous years the majority of visits were paid to those over 65 with 41077 visits. For those under 65 but over 5 years there were 11459 visits and for those under 5 years 1340 visits.

The following tables gives the number of each type of case dealt with during the year:-

Type of Case	Total No. of Cases
Abdominal	66
Anaemia	322
Bronchitis and Pneumonia	97
Cardiac	145
Cerebral	141
Diabetes	58
Disseminated Sclerosis	25
Obstruction	30
Renal	25
Senility	212
Carcinoma	93
Tuberculosis	13
Other Conditions (Medical)	331
Gynaecological Cases	163
Burns	90
Cuts and Bruises	249
Post-operative Care	247
Varicose Ulcers	108
Other Conditions (Surgical)	180
	<hr/>
	2595
Maternity Cases	9
Puerperium only (Hospital confinements)	56
	<hr/>
	<u>2660</u>

Of the 2959 cases 939 were visited on 14524 occasions mainly to give special treatment as shown below:-

	No. of Cases	No. of Visits for Injections etc.
Enemas	152	323
Antibiotic injections	136	1188
Streptomycin injections	20	649
Liver injections	23	364
Cytamen and Vitamin B injections	386	8058
Diuretic injections	36	923
Insulin injections	22	1316
Other injections	82	1513
Gynaecological cases		
Douching or changing pessaries	82	190
	<hr/>	<hr/>
	<u>939</u>	<u>14524</u>

SUMMARY OF DISTRICT NURSES' WORK FOR YEAR 1969 HEALTH VISITING

	Welfare Visits to elderly	Home Help Visits	Tuberculosis Visits	Mental Health Visits	Infectious Disease Visits	Miscellaneous Visits	Child Welfare Home Visits		No. of Children seen and treated					Home Visits
							Children born 1969	Children born 1968	Children born before 1968	At Drs. School Insp.	At Nurses School Inspection	Minor Ailments		
Airlie	114	11	4	9	6	18	200	205	220	55	1024	5	16	
Arbirlot	205	-	6	11	24	66	244	133	146	387	474	1	-	
Auchterhouse	316	5	13	23	13	67	350	226	599	89	2283	2	10	
Brechin 1	193	32	21	-	-	-	-	-	-	-	-	-	-	
Brechin 2	373	173	49	-	-	-	-	-	-	-	-	-	-	
Careston	1000	-	7	94	-	-	592	734	558	85	1768	-	75	
Carnoustie 1	871	49	-	-	-	171	-	-	-	-	-	-	-	
Carnoustie 2	501	47	-	-	-	53	-	-	-	-	-	-	-	
Edzell	92	-	6	5	1	10	399	601	535	38	1320	-	-	
Forfar 1	338	156	-	13	-	-	-	-	-	-	-	-	-	
Fríockheim	231	3	5	38	-	-	187	156	277	113	449	-	-	
Glenisla	-	-	8	9	13	4	105	108	69	34	209	-	-	
Hillside	790	224	18	153	3	276	270	285	394	73	1190	-	22	
Inverarity	474	-	12	19	5	77	222	222	363	51	579	3	42	
Inverkeilor	128	11	9	25	-	-	575	373	264	93	478	20	40	
Kirriemuir	176	188	45	1	12	9	209	101	220	429	268	-	11	
Kirriemuir	-	-	-	-	-	-	-	-	-	-	-	-	-	
Landward	168	9	3	5	2	26	70	170	244	74	765	2	14	
Letham	400	2	18	33	-	19	179	120	253	43	1087	4	4	
Monifieth	211	20	-	-	-	-	-	-	-	-	-	-	-	
Montrose 1	721	990	71	-	-	-	-	-	-	-	-	-	-	
Montrose 2	720	182	44	42	-	-	125	185	60	-	1369	7	8	
Montrose 3	646	66	88	-	-	-	-	-	-	-	860	4	6	
Murroes	293	4	8	38	-	6	299	551	695	105	620	10	13	
Newbigging	278	8	1	15	-	102	300	334	386	66	787	-	1	
Newtyle	321	-	7	11	-	-	477	301	97	155	2124	-	6	
Southesk	541	178	1	173	55	-	605	378	245	182	960	1	29	
	10101	2358	444	717	134	904	5408	5273	5625	2072	18614	59	297	

SUMMARY OF DISTRICT NURSES' WORK FOR YEAR 1969

	Total Hours on Duty				Total	Nursing Cases			Maternity		Total No. of Visits			Maternity	Ante-Natal Visits	A.N. Clinics with G.P.	Post Natal
	Nursing	Health Visiting and C.W. Clinics	Mental Health	Schools		Children under 5 years	Patients 5 years and under 65	Patients 65 years and over	Domiciliary Confinements	Delivered in hospital and returned home	Children under 5 years	Patients 5 years and under 65	Patients 65 years and over				
Airlie	983½	589	3	3½	1579	1	49	26	-	-	8	349	593	4	74	-	23
Arbirlot	1675	211	14½	21½	1922	19	27	57	-	-	234	233	1833	12	40	1	43
Auchterhouse	1398	659	3½	24½	2085	12	23	36	-	4	79	201	1001	21	12	1	61
Brechin 1	1715	110	-	-	1825	1	19	54	2	-	4	90	1876	25	171	276	-
Brechin 2	1628	106	-	-	1734	7	13	64	1	-	42	301	1777	-	213	14	-
Careston	605	1073	47	70	1795	-	9	18	-	-	-	189	546	-	316	-	277
Carnoustie 1	1911	240	-	-	2151	-	52	90	-	10	-	1255	2535	67	1	-	-
Carnoustie 2	2038	173½	-	-	2211½	3	35	87	1	2	11	470	3738	26	37	-	-
Edzell	1176½	836	2	61½	2076	-	35	45	-	-	-	435	766	-	69	-	-
Forfar 1	1763½	165	8	-	1936	5	47	155	-	2	31	463	2886	14	24	-	-
Forfar 2	957	-	-	-	957	-	-	-	-	-	-	361	1134	-	-	-	-
Frickheim	1158	361	16½	20	1555½	10	30	54	-	2	145	359	1258	16	64	318	62
Glenisla	229	195½	-	18	442½	3	4	7	1	-	-	66	120	12	64	-	-
Hillside	1036	638	44	49	1767	18	56	51	-	-	104	646	1250	-	173	103	73
Inverarity	1135½	939½	15	48	2138	6	28	28	-	1	22	370	635	8	208	-	102
Inverkeilor	1230	511	51½	26	1818½	24	53	49	2	-	180	490	1684	14	139	71	46
Kirriemuir	895½	605	-	51	1551	-	41	98	-	1	-	420	1938	7	103	460	27
Kirriemuir	1066	715½	-	45	1826½	7	15	30	-	1	17	170	579	6	60	-	37
Landward	1220½	419½	19½	25	1684½	6	45	61	1	-	47	474	1148	15	56	70	10
Letham	1447	200½	-	-	1647½	6	27	66	-	20	30	279	1860	82	22	-	-
Monifieth	1775½	392½	-	-	2168	1	43	88	-	-	15	938	2336	-	-	-	-
Montrose 1	1675	463½	-	46½	2186	2	34	117	-	-	4	456	2461	-	-	-	-
Montrose 2	1819½	290½	-	26	2136	4	53	127	-	-	30	441	2520	-	-	-	-
Montrose 3	937½	805½	6	54	1803	14	35	18	1	3	103	352	711	11	30	-	65
Murroes	1302½	586	7	20	1915½	29	39	43	-	3	115	573	1694	50	75	-	8
Newbigging	1341	340	-	59½	1740½	10	42	43	-	2	74	607	1380	28	18	84	11
Newryle	891½	519	55	46	1511½	2	26	14	-	5	45	471	818	42	245	42	4
Southesk																	
	35010½	12145	292½	715	48163	190	880	1526	9	56	1340	11459	41077	460	2214	1440	849

SUMMARY OF HEALTH VISITOR'S WORK FOR THE YEAR 1969

	Ante-Natal	Post-Natal	Ante-Natal at G.P. Clinic	Post-natal at G.P. Clinic	Welfare visits to elderly	Tuberculosis	Mental Health Visits	Intestinal Diseases	Miscellaneous	Child Welfare Home Visits			Child Welfare Clinic		Clinics					Schools No. of Children seen and treated					Total Hours on Duty										
										Children born 1969	Children born 1968	Children born 1965-67	Children born 1969	Children born 1968	Children born 1965-67	Eye	Orthopaedic	M.D.	Cytology	Mothers' Advisory	Mothercraft	At Drs. Inspection	At Nurse's Inspection	At School Clinic	Home Visits	Children Immunised against Polio	Children Immunised against Diphtheria	Mantoux Test	Children Received B.C.G.	Health Visiting and C.W. Clinics	Mental Health	School Nursing	Total		
Arbroath 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	279	36	-	-	-	-	116	2580	8	362	-	-	-	-	-	-	-	-	379	379
Arbroath 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	136	2151	141	110	-	-	-	-	-	-	-	-	376½	376½
Arbroath 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39	64	-	-	-	-	172	354	-	11	-	-	-	-	-	-	-	-	996	996
Arbroath 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	413	1015	-	-	-	-	148	1185	-	3	-	-	-	-	-	-	-	-	86	86
Brechin	-	48	-	-	-	776	553	791	530	701	713	194	-	7	4	8	-	-	-	-	-	889	4386	69	55	10	8	-	-	-	-	1247	60	224	1531
Brechin Part-time	-	-	-	-	-	158	125	188	109	50	61	-	-	-	-	-	-	-	-	-	-	-	772	22	72	13	-	-	-	-	267½	20	287½		
Carnoustie	176	302	417	-	-	1025	882	602	586	465	292	-	-	-	6	4	26	1163	772	22	72	87	74	13	-	-	-	-	-	1697	9½	255	1961½		
Forfar 1	508	169	-	-	-	851	859	859	653	386	145	472	500	17	71	54	265	87	74	13	265	87	74	13	-	-	-	-	-	1672	82	39	1793		
Forfar 2	-	-	-	-	-	86	180	494	30	19	30	2	2	-	1	3	-	2221	10616	234	175	2221	10616	234	175	549	543	763	714	600	-	1672	82	39	1793
Monifeth	4	-	-	-	-	712	607	1370	432	568	461	-	-	3	32	17	-	361	1417	-	35	361	1417	-	35	233	234	37	3	1779½	22	65	1866½		
Montrose 1	232	66	270	33	-	747	642	756	564	458	298	114	-	8	31	-	131	622	941	23	18	622	941	23	18	76	66	162	2	1466	47	180	1693		
Montrose 2	375	147	295	29	-	649	453	580	657	445	300	123	-	12	53	28	96	608	1762	25	76	608	1762	25	76	21	6	-	-	1618½	33	168½	1820		
	1295	732	982	62	92	138	380	173	190	5004	4301	2300	3092	3561	5640	1637	1617	47	198	114	518	6436	26241	596	930	902	869	1150	719	10347½	253½	3629	14230		

VACCINATION AND IMMUNISATION

SMALLPOX VACCINATION

The following table shows the number of primary vaccinations, re-vaccinations and the total number of vaccinations against smallpox recorded in the County in 1969. Comparable returns for 1968 and 1967 are shown:-

	1969	1968	1967
Primary Vaccination	666	801	863
Re-vaccinations	682	556	529
Total number of vaccinations . . .	<u>1348</u>	<u>1357</u>	<u>1392</u>

Many of those re-vaccinated were as before, emigrants or travellers abroad who had to comply with the international regulations as enforced by the countries to which or through which they were travelling.

DIPHTHERIA, TETANUS AND WHOOPING COUGH (PERTUSSIS) IMMUNISATION

This is done by the Public Health Staff and the General Practitioners. Most pre-school children are given protection against all three diseases in infancy by Triple Vaccine, and most children of school age are given combined vaccine against only Diphtheria and Tetanus.

The greater number of reinforcing Diphtheria/Tetanus Combined Vaccine injections are given through the School Health Service. Most of the injections against Tetanus only are given by the General Practitioners.

The following table shows the number of immunisations done in 1969 against Diphtheria, Whooping Cough and Tetanus, with comparative figures of the total numbers done in 1969, 1968 and 1967:-

	Children born 1965 to 1969	Children born 1964 or earlier	Total No. of Primary Immunisation		
			1969	1968	1967
Primary Immunisations —					
1. Diphtheria, Whooping Cough and Tetanus	912	8	920	916	1002
2. Diphtheria and Tetanus	3	24	27	10	2
3. Tetanus only	20	783	803	511	174
Total	<u>935</u>	<u>815</u>	<u>1750</u>	<u>1437</u>	<u>1178</u>
	Children born 1965 to 1969	Children born 1964 or earlier	1969	Totals 1968	1967
Reinforcing or "booster" Injections —					
1. Diphtheria, Whooping Cough and Tetanus	438	193	631	720	606
2. Diphtheria and Tetanus	26	668	694	480	2500
3. Diphtheria only	-	1	1	-	1
4. Tetanus only	13	113	126	146	85
Total	<u>477</u>	<u>975</u>	<u>1452</u>	<u>1346</u>	<u>3192</u>

The drop in the number of reinforcing injections in 1969 and 1968 compared with 1967 is due to change in the schedule of immunisation, which discontinues giving a reinforcing injection to 9 year old children.

POLIOMYELITIS IMMUNISATION

In 1969 both the Public Health doctors and the General Practitioners used only the oral vaccine.

Poliomyelitis Immunisation in 1969, with comparative figures of the total numbers done in 1968 and 1967:-

PRIMARY IMMUNISATION

Children born in 1969	Children born 1963-1968	Young persons born before 1963	Total number of Primary Immunisations		
			1969	1968	1967
271	658	36	965	946	1147

REINFORCING IMMUNISATION

Young persons of all ages	1265	989	1221
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MEASLES IMMUNISATION

During 1969 there was a shortage of measles vaccine due to the Home and Health Department withdrawing early in the year all vaccine supplied by one of the two firms producing it and a consequent falling off in the demand.

MEASLES IMMUNISATION IN 1969

Children born in 1965 to 1969	357
Children born in 1961 to 1964	99
Children born 1960 or earlier	8
Total	<u>464</u>

The total number immunised in 1968 was 628 children in selected age groups as instructed by the Scottish Home and Health Department.

PREVENTION, CARE AND AFTER CARE

A. TUBERCULOSIS

	1969	1968	1967
Notifications			
No. of cases of pulmonary tuberculosis notified	18	16	13
No. of cases of non-pulmonary tuberculosis notified	4	4	5
All cases of tuberculosis notified	22	20	18
No. of deaths from pulmonary tuberculosis	4	-	-
No. of deaths from non-pulmonary tuberculosis	-	-	-

	Pulmonary	Non-Pulmonary
No. of cases treated in hospital	16	4
No. of cases treated at home	2	-

MASS MINIATURE RADIOGRAPHY AND OTHER CHEST X-RAYS

School children who gave a positive reaction to Mantoux Skin Testing were given appointments for chest X-rays at the nearest Chest Clinic or MMR unit. In 1969 there were 10 such children and in all cases there was no evidence of active disease.

During the year the M.M.R. Mobile Unit visited Forfar, Kirriemuir, Monifieth, Carnoustie and Arbroath. Teachers and others in frequent close contact with children, e.g. members of the staff of the Public Health and Children's Departments, foster-parents, janitors, school meals attendants etc., had chest X-rays. M.M.R. was also arranged for the employees of the Anderson-Grice Engineering Company and Lockwood's Canning Factory, both in Carnoustie.

CARE AND AFTER CARE

At the end of the year there 325 persons suffering from tuberculosis resident in the County, of which 271 were pulmonary and 54 were non-pulmonary.

The place of residence of these persons at 31st December, 1969 is shown in the following table:-

	Pulmonary	Non-Pulmonary
Residing in		
Burgh of Brechin	36	10
Carnoustie	19	-
Forfar	36	5
Kirriemuir	18	8
Monifieth	8	-
Montrose	67	15
Landward Area	87	16

During the year Health Visitors and District Nurses paid 632 visits to those households. They advised about the care of cases and prevention of infection, and arranged X-rays and attendance at Chest Clinics for family and other close contacts. They visited defaulters from X-ray sessions and Clinics. The District Nurses gave home nursing care when necessary.

B.C.G. VACCINATION

In November and December 1969 children born in 1956 were offered B.C.G. Vaccination at their schools. As the material for Mantoux Skin Testing was not available for the last group of schools to be visited, vaccination at Arbroath High School, Arbroath Academy and Brechin High School had to be postponed till January, 1970.

Details in the other Secondary Schools in the County are:-

	No. of Children Skin Tested	Negative	%	Number Vaccinated	
				1969	1968
Forfar Academy	214	210	98.1	202	188
Webster's High School, Kirriemuir	103	102	99.0	98	70
Montrose Academy	161	158	98.1	155	152
Carnoustie	97	97	100	92	82
Edzell	4	4	100	4	15
Friockheim	16	16	100	14	18
Murroes	23	22	95.7	20	18
Newtyle	39	38	97.4	37	32
Tannadice	10	10	100	8	7
Total	667	657	98.5	630	582

B. CHIROPODY SCHEME

TREATMENT OF PERSONS IN OLD AGE PENSIONER AGE GROUP

	1969	1968	1967
No. of persons treated	2439	2437	2174
No. of treatments given	10864	9423	8510

During 1969, the 4 Chiropodists employed by the County Council gave the following service:-

	Number of Patients and Place of Treatment			
	Clinic	Patient's Own Home	Welfare Homes	Total
Burgh of Arbroath	399	203	57	659
Montrose	91	96	46	233
Kirriemuir	62	148	14	224
Monifieth	34	71	-	105
Carnoustie	22	44	38	104
Brechin	59	124	36	219
Forfar	161	171	94	426
Landward Area	181	246	42	469
Total treated	1009	1103	327	2439
Discontinued	62	116	54	232
Patients receiving treat- ment as at 31st December, 1969	947	987	273	2207

As well as in each of the Burghs, including Arbroath, Clinics were held as before in public halls at Edzell, Muirhead, Ferryden and Tealing. The Chiropodists also held treatment sessions in the Duty Rooms of the District Nurses' houses at Letham, Glamis, Hillside, Newtyle and Friockheim.

Regular visits were paid to all the Old People's Welfare Homes in the County, including those in Arbroath Burgh.

45.2% of patients were treated in their own homes. In the burghs treatment at home is given to those who are unfit to walk to the Clinics. In the rural areas home treatment is given because of lack of transport for patients to the nearest centre. Where there is no incapacity or transport difficulty cases are encouraged to go to the Clinics for treatment.

C. PREVENTION OF ACCIDENTS IN THE HOME

As detailed in previous reports the education of the public about home accidents is done mainly by the Health Visitors and District Nurses at their routine visits to mothers, pre-school children and the elderly.

During 1969, 14 deaths were recorded as being due to accidents at home. There were no deaths from home accidents in persons up to the age of 54 years. The distribution by age group was:-

Age-group	No. of deaths
55 - 65 years	2
66 - 74 years	1
75 - 84 years	6
85 and over	5

D. SMOKING AND LUNG CANCER

The various approaches to adolescents as described in previous reports continued during 1969. The Lecturer of the Scottish Council for Health Education visited Angus Schools in June. The dangers from smoking were included in his lectures.

During the year 34 deaths were recorded as due to lung cancer, 30 males and 4 females at ages varying from 35 to 84 years. The number of deaths from lung cancer was the same as in the previous year.

E. CERVICAL CYTOLOGY

This service continued as before. The number of Clinics held, women attending and smear results are shown in the following table:-

	No. of Clinics	No. of Women Attending	No. of Positive Smears
Brechin	1	5	-
Carnoustie	7	50	-
Forfar	12	79	4
Monifieth	3	21	1
Montrose	11	104	-
Total	<u>34</u>	<u>259</u>	<u>5</u>

The number of positive smears is 1.93% of women attending.

INFECTIOUS DISEASES

NOTIFIABLE DISEASES

During 1969 there were 409 confirmed cases of notifiable infectious diseases compared with 434 in 1968.

Disease	<u>1969</u>	<u>1968</u>
Anthrax	2	-
Cerebro-Spinal Fever	1	4
Dysentery	31	37
Erysipelas	6	2
Food Poisoning	3	3
Hepatitis, viral infectious	47	35
Influenzal Pneumonia	3	3
Malaria	1	-
Measles	238	222
Pneumonia, acute primary	15	42
Scarlet Fever	54	80
Whooping Cough	8	6

The cases of anthrax did not occur in the same area or at the same time. Both were considered to be due to infected bone meal being used as horticultural fertiliser.

There was no notable outbreak of any disease.

The distribution of the 31 cases of Dysentery was:- Carnoustie - 4, Forfar - 1, Kirriemuir - 3, Monifieth - 1, Landward area - 22. Five of the Landward cases were in a family who came in from another County with the infection. There were 17 cases in Strathmartine, a Hospital for Mental Defectives.

The distribution of Viral Infectious Hepatitis was:- Carnoustie - 13, Forfar - 6, Monifieth - 4, Montrose - 4, Landward area - 20.

VENEREAL DISEASE

There were fewer cases of Venereal disease in the County than there were last year.

Comparative tables for five years are as follows:-

	Syphilis Acquired	Syphilis Congenital	Gonorrhoea of General Tract.	Other Venereal Conditions	Total
1965	2	1	7	33	43
1966	-	-	12	36	48
1967	-	-	8	24	32
1968	-	-	18	34	52
1969	-	-	15	18	33

HOME HELP SERVICE

During 1969, 245 cases were provided with a Home Help compared with 233 in 1968 and 184 in 1967.

They were resident as follows:-

	Aged over 65 years	Chronic sick etc. Under 65 years
Burgh of Brechin	30	5
Carnoustie	6	4
Forfar	56	2
Kirriemuir	27	4
Montrose	68	5
Landward Area	<u>36</u>	<u>2</u>
Total	<u>223</u>	<u>22</u>

The 22 cases aged under 65 receiving Home Help were given assistance on account of:- Arthritis (1), Asthma (1), Cardiac conditions (3), Chronic sickness (6), Convalescence after hospital treatment (1) Chronic bronchitis (2) Diabetes with blindness (1), Hemiplegia (2), Mental Illness (1), Pregnancy with complications (1), Post-Operative debility (1), Defective Vision and Hearing (1), Effects of accident (1).

The majority of cases require the Home Help for from one to three hours daily, but without this assistance many would have to be admitted to a Welfare Home or Hospital.

MENTAL HEALTH

The following are the statistics for the year 1969.

TABLE I

	Mental Defectives	Mentally Ill
1. No. of patients under statutory Guardianship	16	-
2. No. of patients in (1) under Guardianship of the Local Health Authority	5	-
3. No. of patients in (1) resident outside the area of the Local Health Authority	1	-
4. No. of patients in the area who are not under Guardianship but who receive regular visits from the Local Health Authority Staff	124	138

TABLE II.

Visits in respect of	By Local Health Authority Staff			
	Medical Officers	Health Visitors	Others	Total
1. Mental Defectives under Guardianship	32	15	35	82
2. Mental Defectives under Informal Supervision	79	354	51	484
3. Mentally Ill under Guardianship	-	-	-	-
4. Mentally Ill under Informal Care	1	689	18	708

The 146 mental defectives received a total of 566 visits from Local Authority Staff during 1969 and the 138 mentally ill received a total of 708 visits.

During the year there were 18 clinic sessions held in the County at which 63 mental defectives were seen on 64 occasions by a specialist in mental deficiency of the Eastern Regional Hospital Board. Of the 63 cases 11 were seen for the first time.

SENIOR OCCUPATION CENTRES

Adult Occupation Centres for unemployable mental defectives continued at Lordburn House, Forfar and Esk House, Montrose.

The hours were from 9.00 a.m. to 4.00 p.m. on Monday, Tuesdays, Thursdays and Fridays. The training given was as before in occupational handcrafts, simple domestic duties and generally in socially acceptable habits.

Swimming Instruction continued as before at Montrose Swimming Pool for those attending Esk House Centre, and from 25th September, 1969, was provided at Forfar Public Baths for those attending Lordburn Occupational Centre.

On 15th October, 1969 a small Senior Adult Occupation Group of three adult mental defectives began in Carnoustie Clinic on Wednesday afternoons.

The Instructors continued to visit home-bound defectives on Wednesdays to give lessons in handwork. 148 visits were paid during the year.

At the end of the year 34 defectives were attending 3 Centres:- at Lordburn Occupational Centre, Forfar (18), at Esk House Occupational Centre, Montrose (13), and at Carnoustie Clinic (3)

In addition 3 defectives attended Blairgowrie Occupation Centre, by arrangement with Perth County Medical Officer of Health, and 3 attended the Occupation Centre daily at Strathmartine Hospital.

In the course of the year 15 mental defectives and 2 physical defectives had been given home tuition.

NURSERIES AND CHILD MINDERS REGULATIONS

Private Play-groups and Nursery Classes were supervised informally as in previous years. In addition arrangements were made for formal registration as required by the Nursery and Child Minders' Regulation Act (1948), amended by the Health Services and Public Health Act (1968). On 17th November, 1969 duties in this sphere passed from the Public Health Department to the Social Work Department under the Social Work (Scotland) Act, (1968).

Arrangements for chest X-rays for all Nursery organisers, helpers and other such workers continued to be the responsibility of the Public Health Department.

Up to 17th November, 1969, there were twelve private Play-groups or Nursery classes in the County, and the Eastern Regional Hospital Board also opened a creche at Ashludie Hospital for the children of trained Nursing staff. The Medical Staff of the Public Health Department were consulted by the Physician Superintendent of the Hospital about re-planning the interior of the building, provision of an outdoor playground, equipment etc. They continued to visit periodically after the creche was opened until 17th November.

FOOD SUPPLIES

Details of the work done in relation to the administration of the various Acts, Orders and Bye-laws will be found in the report by the Sanitary Inspector.

There were three cases of food poisoning notified during the year.

PORT HEALTH ADMINISTRATION

During the year 77 foreign vessels arrived at Montrose direct from foreign ports with cargoes of:- General mixed cargoes 14, Empty boxes 20, In ballast 7, Fertilisers 11, Jute 1, Barley 8, Oats 3, Salt 2, Timber 1, Wheat 1, Starch 2, Onions 1, Flax 6. All had a clean bill of health.

MEDICAL FUNCTIONS UNDER THE NATIONAL ASSISTANCE ACT, 1948 AND SOCIAL WORK (SCOTLAND) ACT, 1968

In mid-November, 1969 the Social Work Department came into being but this was not an upheaval in this County because there have always been separate Health and Welfare Departments.

Certain functions under the Social Work (Scotland) Act, 1968 were not transferred, e.g. Home Helps remain to be administered by the Health Department; Mental Health Functions have continued (by mutual consent) much as before with the exception of the administration of the Senior Occupation Centres referred to earlier in this report. It is my opinion that Mental Health apart from ascertainment of mental defectives cannot be divorced from the Health of the Community, and the Health Department should continue in liaison with the Social Work Department to maintain a viable interest.

Responsibility for Nurseries and Child Minders passed to the Social Work Department.

All cases for admission to Welfare Homes continue to be vetted medically for the Social Work Department and during 1969, 86 would-be residents were examined.

Liaison between the Health Department and the Social Work Department should continue at a high level in the interests of both.

FACTORIES ACTS, 1937—1959

These Acts are administered by the Town Council of the Burghs and the County Council in respect of the landward area. The sections of the Acts which concern local authorities are those dealing with cleanliness, overcrowding, temperature and ventilation, drainage of floor area and sanitary conveniences.

In regard to these matters the inspections are carried out by the Burgh Surveyor/Sanitary Inspectors in the Burghs, and in the landward area by the County Sanitary Staff.

Annually the Medical Officer of Health is required to make a return regarding the number of factories in his area, visits paid and defects noted and how remedied. The following is the return for 1969 in respect of the 7 areas under my jurisdiction.

Factories in each area (No. of Visits paid in 1969 in brackets).

	Brechin, Carnoustie, Forfar, Kirriemuir, Montrose, Monifieth, Landward						
1. Factories in which sections 1, 2, 3, 4, and 6 are enforced by Local Authority	19 (6)	14(8)	4(4)	19(19)	93(21)	15(3)	3(2)
2. Factories not included in (1) in which section 7 is enforced by Local Authority	41(41)	24(14)	80(62)	26(26)	-(-)	-(-)	120(67)
3. Other premises in which section 7 is enforced by Local Authority	2(1)	-(-)	-(-)	-(-)	-(-)	-(-)	1(1)
	62(48)	38(22)	84(66)	45(45)	93(21)	15(3)	124(70)

BRECHIN BURGH In 10 cases the standard of cleanliness was unsatisfactory and this was remedied in each.

CARNOUSTIE BURGH No defects were noted in the factories inspected in 1969.

FORFAR BURGH No defects were noted in the factories inspected in 1969.

KIRRIEMUIR BURGH In 2 cases the standard of cleanliness was unsatisfactory and this was remedied.

MONTROSE BURGH In 2 cases the standard of cleanliness was unsatisfactory and this was remedied.

MONIFIETH BURGH No defects were noted in the factories inspected in 1969.

LANDWARD AREA No defects were noted in the factories inspected in 1969.

BURGH OF BRECHIN

For the year 1969 the Registrar General has estimated the mid-year population for the burgh to be 6,775 which compares with 7,114 in the 1961 census. During the year 87 live births were allocated to the Burgh. There were 2 illegitimate births and no still births in 1969.

Marriages registered numbered 78. Deaths corrected for residence in the burgh numbered 99. The chief causes of death were Heart Disease 30, Cancer 19 (lung cancer 5), Cerebral Haemorrhage 12. There were 2 deaths following accidents in the home. Of the 99 deaths 75 persons were over the age of 65 years at time of death. Infant deaths (under 1) were 3.

During the year there were 9 cases of notifiable infectious diseases notified and confirmed, Scarlet Fever 6, Pulmonary Tuberculosis 2 and Food Poisoning 1.

BURGH OF CARNOUSTIE

For the year 1969 the Registrar General has estimated the mid-year population of the burgh to be 5,663 which compares with 5,511 at the time of the 1961 census. The number of live births allocated to the Burgh was 104. There were 8 illegitimate births and 1 still birth.

Marriages registered numbered 37. Deaths corrected for residence in the burgh numbered 106. The chief causes of death were Heart Disease 35, Cancer 16 (lung cancer 3), and Cerebral Haemorrhage 12. There were 3 deaths following accidents in the home. Of the 106 deaths 74 persons were over the age of 65 years at time of death. There were 4 infant deaths in 1969.

During the year there were 159 cases of notifiable infectious diseases notified and confirmed, Measles 125, Viral Infectious Hepatitis 13, Whooping Cough 13, Dysentery 4, Acute Primary Pneumonia 4, Scarlet Fever 4, Pulmonary Tuberculosis 3 and Acute Influenzal Pneumonia 1.

BURGH OF FORFAR

For the year 1969 the Registrar General has estimated the mid-year population of the burgh to be 9,870 which compares with the 1961 census population of 10,252. The number of live births allocated to the Burgh was 155. There were 8 illegitimate births and 4 still births during the the year.

Marriages registered numbered 109. Deaths corrected for residence in the burgh numbered 146. The chief causes of death were Heart Disease 57, Cancer 30 (lung cancer 9), Cerebral Haemorrhage 23. There were 2 deaths following accidents in the home. There were no deaths in children under 1 year. Of the 146 deaths 114 persons were over the age of 65 years at time of death.

During 1969 there were 43 cases of infectious diseases notified and confirmed, Scarlet Fever 24, Viral Infectious Hepatitis 6, Measles 5, Pulmonary Tuberculosis 5, Anthrax 1, Dysentery 1 and Erysipelas 1.

BURGH OF KIRRIEMUIR

For the year 1969 the Registrar General has estimated the mid-year population of the burgh to be 4,107 which compared with the 1961 census population of 3,245. The number of live births allocated to the burgh was 73. There were 4 illegitimate births and 1 still birth in 1969.

Marriages registered during the year numbered 50. Deaths corrected for residence numbered 61. The chief causes of death were Heart Disease 19, Cancer 6 (lung cancer 1), Cerebral Haemorrhage 16. There was 1 death following an accident in the home. Of the 61 deaths 44 persons were over the age of 65 years at time of death. There were no infant deaths in 1969.

During the year there were 4 cases of infectious diseases notified and confirmed, Dysentery 3 and Pulmonary Tuberculosis 1.

BURGH OF MONIFIETH

For the year 1969 the Registrar General estimated the mid-year population of the burgh to be 5,170 which compares with the 1961 census population of 3,475. During the year there were 100 births allocated to the burgh. There was 1 illegitimate birth and no still births during the year.

Marriages registered numbered 30. Deaths corrected for residence in the burgh numbered 56. The chief causes of death were Heart Disease 28, Cancer 9 (lung cancer 2), Cerebral Haemorrhage 7. There was 1 death in children under 1 year. Of the 56 deaths 39 persons were over the age of 65 years at time of death. There was 1 death from an accident in the home.

During the year there were 29 cases of infectious diseases notified and confirmed, Measles 21, Viral Infectious Hepatitis 4, Erysipelas 2, Dysentery 1 and Acute Primary Pneumonia 1.

BURGH OF MONTROSE

For the year 1969 the Registrar General has estimated the mid-year population of the burgh to be 10,269 which compares with the 1961 census return of 10,702. Live births allocated to the burgh in 1969 numbered 148. There were 9 illegitimate births and 2 still births during the year.

Marriages registered numbered 126. Deaths corrected for residence in the burgh numbered 179. The chief causes of death were Heart Disease 59, Cancer 25 (lung cancer 6), and Cerebral Haemorrhage 30. There were no deaths following accidents in the home. One child died under the age of 1 year. Of the 179 deaths 141 persons were over the age of 65 years at time of death.

During the year there were 12 cases of infectious diseases notified and confirmed, Scarlet Fever 5, Viral Infectious Hepatitis 4, Acute Primary Pneumonia 1, Whooping Cough 1 and Non-Pulmonary Tuberculosis 1.

SCHOOL MEDICAL SERVICE

Report for the Year Ending 31st July, 1969.

STAFF

The following were the changes in the Medical Staff.

Dr. F.R. Hood, who had taken up duty as an Assistant Medical Officer of Health on 8th July, 1968, participated in the duties of the School Medical Services throughout the School Year. Dr. Jessie C.M. Learmonth was temporarily on the staff from 2nd September to 15th October, 1968, and was re-appointed to the permanent staff on 16th October, 1968. Dr. Sheila M. Tocher was a temporary part-time Assistant from 2nd September, 1968 to 27th September, 1968 and from 14th May 1969 to 4th July, 1969.

Nursing duties were done by the Health Visitors, School Nurses and District Nurses as in previous years.

GENERAL STATISTICS

The population of the area of the Education Authority including the Large burgh of Arbroath (21,400), at 31st December, 1968 was 95,400.

Number of Schools

(a) Primary (including Primary Departments of Secondary Schools	...	...	...	...	...	87
(b) Secondary - Junior	...	...	...	...	...	6
(c) - Senior	...	...	...	...	...	6
(d) Special Schools (Junior Occupation Centres)	...	...	...	...	...	2
(e) Special Classes in Ordinary Schools	...	...	...	...	...	7
(f) Classes for Retarded Pupils in Ordinary Schools	...	...	...	...	...	3
Number of Children on Registers	...	...	...	...	...	15,519
Number of Children in Average Attendance	...	...	...	...	...	14,628 94.3%.

SANITARY CONDITIONS & BUILDINGS

While each school was visited for the Annual Systematic Medical Inspection of the pupils, the buildings were seen and any major defects discussed with the Head Teacher and reported to the Director of Education.

ORGANISATION AND ADMINISTRATION

There has been no change in the organisation and administration of the Service since it was last detailed.

SYSTEM AND EXTENT OF MEDICAL INSPECTION AND TREATMENT

All Schools in the County were visited for routine Medical Inspection of Children in certain age-groups as required by the Scottish Home and Health Department.

This session the children given Systematic Medical Inspection were:

- (a) the entrants - i.e. all children starting school (at the age of five approximately).
- (b) School Leavers - i.e. all children born during the year, 1955 (approximately 13 years old at the time of inspection)

In addition to those examinations, children who had previously missed examination with their age-groups, because of absence or because of moving from another area, were also systematically medically inspected.

Children of all ages who had been found at a previous examination to be suffering from defects were examined in respect of these defects. The vision and hearing of all children born in 1961 were tested.

Special visits were paid to schools for such purposes as the investigation of infectious diseases, diphtheria and tetanus immunisation, poliomyelitis immunisation, B.C.G. vaccination, and examination of physical and mental defects with regard to the child's suitability for education in an ordinary school or admission to a special school, such as a school for the blind, deaf epileptic, cripple or mentally retarded etc. Children on whose behalf requests for transport to school were made by their parents or guardians to the Director of Education were also seen. Examination of children for other specific purposes was undertaken, e.g. because of prolonged or frequent absence from school without apparent reason. A number of children were seen at special visits at the request of head teachers. In most of these cases a visit or visits to the homes were necessary and many of the preliminary examinations were done in the pupil's homes.

Statistical tables of the findings at School Medical Inspection are given at the end of the report. These include informative figures supplied by the Scottish Home and Health Department in respect of the Entrant and Leaver Groups for Angus and for Scotland as a whole.

Clinics were held by the Medical Staff weekly in the Burghs of Forfar, Arbroath, Montrose and Brechin. The Medical Officers saw children at the request of their parents or teachers, as well as a number of children who had been found at School Medical Inspection to require further investigation or surveillance. The majority of the children were accompanied by parents. Treatment in some cases was given for Minor Ailments, especially those of a contagious nature. These Clinics were also used for the medical assessment of pre-school children who might require special education.

Specialist Clinics were also held in these Burghs for Ophthalmic, Orthopaedic and Mental conditions. The Specialists at these Clinics were provided by the Eastern Regional Hospital Board and the Clinics were organised by the County Council's Medical Staff. Defects of the Ear, Nose and Throat were referred to the Specialists at the Out Patients' Departments at Forfar, Arbroath and Montrose Infirmarys and Stracathro Hospital. Children with eye defects living near Dundee were referred to the School Eye Clinics held at Dundee Eye Institution for Angus children, and those living near Dundee with Ear, Nose and Throat Defects were seen at Dundee Royal Infirmary.

Children throughout the County were also referred to the Child Psychiatrist, Dundee Royal Infirmary, when necessary.

Children who were found to be deaf or were suspected of being deaf were referred to the Speech and Hearing Assessment Clinic at Dundee Royal Infirmary.

Further details, with figures, of these Clinics will be found later in the report.

COLOUR BLINDNESS

All thirteen year old children were, as in previous years, tested for colour blindness using Ishihara Plates. The Headmasters are notified of children who are colour blind, and the condition is explained to the colour blind pupil, including an explanation that he will not be accepted in certain occupations.

ENTRANTS' VISION TESTING

This continues to be done as detailed in previous reports. The importance of this test is to detect visual defects at an early age, as certain defects are not amenable to treatment later, and also because defective vision may be a handicap to scholastic progress.

B.C.G. VACCINATION

In November and December, 1968, B.C.G. vaccination against tuberculosis was offered to all children born in 1955. As B.C.G. vaccination is a Local Health Authority function the B.C.G. vaccination of Arbroath Burgh Children is undertaken by the Arbroath Medical Officer of Health. In all, 1059 children were skin-tested, and 1,029 gave a negative reaction, of whom 996 were given B.C.G. vaccination. X-ray examinations of the chest were arranged for children who showed a positive reaction. Details of the Vaccination Scheme are included in the Annual Report of the Medical Officer of Health for the year, 1968.

POLIOMYELITIS/AND DIPHTHERIA/TETANUS IMMUNISATION

This is also a function of the County Council as Local Health Authority, but use is made of the School Medical Service to offer immunisation against both poliomyelitis and Diphtheria/Tetanus through the Schools. Details of these immunisations are given in the Annual Report of the Medical Officer of Health.

DETAILS OF CLINICS

EYE CLINICS

These were held as follows:-

Arbroath - Public Health Clinic, 7 Hill Street	Two or three times a week as required, either at 9.30 a.m. or in the afternoon.
Brechin - Damacre School Clinic	Thursdays at 9.30 a.m. as required.
Dundee - Dundee Eye Institution	One or two clinics a month as required, on Thursdays at 9.30 a.m.
Forfar - Ravenswood Clinic	Once or twice a week as required either at 9.30 a.m. or 1.45 p.m.
Montrose - Esk House Clinic	Two or three times a month as required, either at 9.30 a.m. or 1.45 p.m.

As mentioned earlier in this report these Clinics are staffed by Eye Specialists provided by the Eastern Regional Hospital Board.

The following table gives details of children referred during the year.

No. of appointments made	1908
No. of absentees	370
No. of examinations carried out	1538
No. of children called to Clinics	1367
No. of absentees	70
No. of children in attendance at Clinics	1297
No. of children for whom glasses were prescribed or who were wearing suitable glasses	1233
No. of children for whom no glasses were prescribed	64
No. of children referred from these Clinics for hospital and other treatment	32
No. of children for operation	8

The number of absentees included those children whose parents elected to take them to their family doctors to arrange treatment privately. Children who did not attend because of illness or other unavoidable circumstances were given a further appointment.

EAR, NOSE AND THROAT CLINICS

Cases were referred to the Ear, Nose and Throat Consultants at Forfar, Dundee, Montrose and Arbroath Infirmarys and at Stracathro Hospital. The cases were called in by appointment.

Number of children whose parents were notified of child's defect of the Ear, Nose and Throat	31
Number referred to Consultants	22
Number given treatment at Hospital	20

When the parents were notified of the child's defect they were asked to consult their family doctor. They then accepted the School Medical Service's offer of a hospital appointment or had other arrangements made by their family doctor.

SPEECH AND HEARING ASSESSMENT CLINIC

This Clinic is held by an Ear, Nose and Throat Specialist at Dundee Royal Infirmary for children in the Region. Children are referred for the assessment of their hearing and for treatment of any disability found. Whether the child can be educated at an ordinary school or at a School for the Deaf (usually Dundee School for the Deaf) is considered by the Specialist and discussed with a panel, which includes one of the doctors from the School Medical Service and the Educational Psychologist. The advice of other Specialists is obtained when required. Old cases are also periodically reviewed in the same way.

Seven new cases were seen during the school year.

ORTHOPAEDIC CLINICS

These Specialist Clinics were held at the Clinics, 7 Hill Street, Arbroath and Ravenswood, Forfar. All cases were seen by appointment. The Arbroath Clinics were held on one day a week on the first, third and fourth weeks of each month at 9.30 a.m. The Forfar Clinics were held at the same time on the second and fifth (when five a month) Tuesdays of each month. Children residing in the Montrose and Brechin areas were called to the local infirmary. Those living in the Dundee area were seen at Kemback Street Clinic. Those living near the Perthshire boundary were seen at Clinics in Coupar Angus or Blairgowrie, by arrangement with the Perth Hospital Group.

In addition to the Specialist Clinics, physiotherapy treatment sessions were held weekly in Arbroath Clinic on Tuesday afternoons and all day on Friday and in Forfar on Wednesdays.

	Arbroath/ Forfar	Dundee	Perth Hospitals	Brechin & Montrose	Total
Cases seen by Consultants	479/326	21	4	22/17	887
Cases recommended for Physiotherapy	124/ 92	3	5	8	232
Cases recommended for Hospital Treatment	28	1	1	11/12	53
Cases admitted to hospital	24	1	-	-/ 1	26

MENTAL DEFICIENCY

Clinics for mental defectives were held at one of the following Clinics as required:-

Arbroath	-	7 Hill Street
Brechin	-	Damacre Clinic
Carnoustie	-	18 High Street
Forfar	-	Ravenswood Clinic
Monifieth	-	Seaview Clinic
Montrose	-	Esk House

During the year 26 children of school age were examined at these Clinics by a Specialist in Mental Deficiency from Strathmartine Hospital.

EDUCATIONAL PSYCHOLOGIST

During the session 15 new cases were referred by the School Medical Service.

SPEECH THERAPIST

During the session 12 new cases were referred by the School Medical Service. As the County had no Speech Therapist during the session the children's names were put on the waiting list. The total number of children found at School Medical Inspection to require Speech Therapy, including these new cases, was 123.

REFERRAL TO GENERAL PRACTITIONERS

During the session 40 children were referred by the School Medical Service to their family doctors for treatment.

HEALTH EDUCATION

In June, Dr. Neil Reid of the Scottish Council for Health Education, did a lecture tour visiting Forfar Academy, Montrose Academy, Arbroath High School, Arbroath Academy, Brechin High School, Webster's High School and Carnoustie Secondary School. Each session was of 90 minutes and a variety of subjects was dealt with. Some of the lectures were given to a mixed audience of pupils, others to either girls or boys only.

During the session both the Medical Officers and the Health Visitors took every opportunity of furthering the Health Education of children of all ages.

RESEARCH

The second follow-up of the National Child Development Study took place throughout England, Scotland and Wales. This study is of every child born during the week 3rd to 9th March, 1958, and is done by Local Authority Staff.

The children were previously surveyed shortly after birth and in 1965.

In the present study parents were first visited by Health Visitors and Interview Forms completed. The Medical Officers later examined the children, in almost every case in the presence of the child's mother. Nineteen children in Angus were given this comprehensive screening. Their audiometric testing will be done early in the next school year.

Interesting information has been extracted from the past two surveys, and the results of this last survey will be published later.

For several years the Angus School Medical Services' doctors and Health Visitors have participated in the Survey of Childhood Cancers

carried out by the Department of Social Medicine, Oxford University.

This assistance from Local Authority School Medical Services throughout the country has enabled the research team to include in their studies of cancer aetiology not only several thousand children who have died recently from malignant disease but also an equally large number of healthy controls.

The Survey was completed during the school session, during which the parents of seven children who had suffered from a childhood malignancy and the parents of seven children who were "healthy controls" were interviewed and detailed questionnaires completed by a doctor and Health Visitor.

TREATMENT OF MINOR AILMENTS, ETC.

The following table gives details of the cases attending the clinics held by School Medical Officers in Arbroath, Forfar, Brechin and Montrose and of these treated by the nursing staff in the rural areas.

	BURGH		RURAL	
	No. of Cases	No. of Treatments	No. of Cases	No. of Treatments
MINOR AILMENTS				
1. Cuts, bruises, sprains and other injuries	183	354	126	304
2. Diseases of the Ear	14	25	5	20
3. Diseases of the Eye (Conjunctivities, ulcer, etc.)	43	38	6	13
4. Diseases of the Skin				
Ringworm of the Scalp	-	-	-	-
Ringworm of the face	-	-	-	-
Ringworm of the body	-	-	1	1
Scabies	53	130	15	51
Impetigo	20	20	10	17
Other Diseases	80	140	14	106
	393	707	177	512

MEDICAL INSPECTION IN SCHOOLS

	Boys	Girls	Total
Systematic Medical Inspection of Entrants	769	666	1435
Systematic Medical Inspection of Leavers	595	615	1210
Other Systematic Medical Inspections			462

	Boys	Girls	Total
Visual Acuity and Hearing of 7 year old group			1402
Re-examination of Children found to have defects at previous examinations			4349
Special Cases examined at request of parents, teachers, etc.			60
Total number of children seen by doctors in schools			<u>8918</u>

B. SYSTEM AND EXTENT OF DENTAL INSPECTION AND TREATMENT.

The Chief Dental Officer, Mr. Anderson, reports on the Dental Service as follows:-

SESSION 1968-69

I herewith submit my report on the Dental Department for 1968-69.

Mr. K.C. Forsey, B.D.S. was appointed at the end of the year to fill the vacancy in the Dental Officers' establishment and he will commence his duties in August, 1969.

Dental Health Education was continued during the year, both at the routine dental inspection at schools and at the distribution of Dental Health Packs to all new school entrants. In addition slides and film strips about Dental Health were shown at schools in Arbroath and Forfar.

As a continuation of the programme of upgrading equipment in Dental Clinics a new Dental Unit and a new Dental Chair were installed in Forfar Clinic. The old Dental Chair and a wallbracket engine from Forfar were transferred to Webster's High School Medical Inspection Room.

The statistics of treatment carried out are appended. With a reduced staff of four Dental Officers only 58% of Angus School Children were inspected and fewer children received Orthodontic treatment. Apart from this the number of pupils treated and the amount of treatment done per Dental Officer was similar to last year.

(Sgd.) D. N. ANDERSON,
Chief Dental Officer.

DENTAL STATISTICS 1968-69

	Number of Schools	Number Inspected and Treated
Primary (including Primary Dept. of Secondary Schools)	87	78½
Secondary - Junior	6	5
- Senior	6	1

SYSTEMATIC INSPECTION AND TREATMENT

(1) Number of children and ages inspected by Dental Officers

Age	Systematic Inspection	Emergency	Total
Pre-School	29	28	57
5	957	17	974
6	1048	26	1074
7	1017	34	1051
8	1142	22	1164
9	1145	22	1167
10	1062	17	1079
11	849	17	866
12	568	14	582
13	616	9	625
14	251	5	256
15	136	7	143
16	40	1	41
17	14	1	15
	8845	192	9037

(2) Number of Children found to require Treatment	5313
Emergency	192
(3) Number of Children actually treated	3066
Emergency	192
(4) Number of attendances for treatment	9200
Emergency	229
(5) Number of Fillings in Permanent Teeth	7233
Number of Fillings in Temporary Teeth	2399
(6) Number of Permanent Extractions	453
Emergency	50
Number of Temporary Extractions	1925
Emergency	175

(7) Number of Cases of General Anaesthetic	...	...	...	8
Emergency	...	...	...	8
(8) Number of Other operations in Permanent Teeth	...	...	...	1586
Emergency	...	...	...	22
Number of other operations in Temporary Teeth	...	...	...	621
Emergency	...	...	...	10
(9) Number of Dentures supplied	—	Part	...	39
	—	Full	...	1
Number of Dentures repaired	...	...	...	5
Number of Crowns fitted	...	...	...	12
Number of Inlays inserted	...	...	...	4
(10) Ante and Post Natal Cases				
Number of Cases	...	...	...	7
Number of Dentures supplied	...	...	...	-
Number of Permanent Fillings	...	...	...	12
Number of Permanent Extractions	...	...	...	4
Number of Permanent Other Operations	...	...	...	7
Number of Sessions	...	...	...	3
(11) Pre-School Cases				
Number of Cases	...	...	...	55
Number of Temporary Fillings	...	...	...	59
Number of Temporary Extractions	...	...	...	74
Number of Other Operations in Temporary Teeth	...	...	...	18
Number of Cases of General Anaesthetic	...	...	...	16
Number of Sessions	...	...	...	17
(12) Orthodontic Treatment				
New cases diagnosed and periodically seen by the Regional Hospital Board Orthodontist	...	...	...	31
Cases treated by School Dental Officers				
(1) Number of cases continuing from previous year	...	...	...	192
(2) Number of New Cases	...	...	...	75
(3) Number of Cases completed	...	...	...	108
(4) Number of Cases discontinued	...	...	...	19
(5) Number of Cases continuing at end of year	...	...	...	140
(6) Number of Attendances for treatment	...	...	...	1891
Details of Treatment				
(1) Number of Appliances inserted	...	...	...	132
repaired	...	...	...	18
(2) Number of Extractions for Orthodontic purposes				
(a) Permanent Teeth	...	...	...	159
(b) Temporary Teeth	...	...	...	92
(3) Number of X-rays for Orthodontic purposes				
(a) Intra-oral	...	...	...	185
(b) Extra-oral	...	...	...	21

(13) Sessions

Number of Half-days devoted to Inspection	...	...	...	118
Number of Half-days devoted to Treatment	...	...	...	1504½
Number of Half-days lost due to Illness	...	...	...	62
Number of Half-days devoted to Orthodontics	...	...	...	108½
Number of Half-days devoted to Administration etc.		...	...	35½
Number of Half-days devoted to Dental Health Education			...	41½
Number of Half-days devoted to Maternity & Child Welfare			...	20

SCHOOL HEALTH SERVICE

TABLE 1

YEAR 1968

MEDICAL EXAMINATION BY EACH EDUCATION AUTHORITY

Local Authority	ENTRANTS				LEAVERS			
	No. of Examinations		Percentage With Defects		No. of Examinations		Percentage With Defects	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Aberdeen Burgh	1,368	1,332	61.04	56.68	-	-	-	-
Dundee	1,549	1,445	47.13	41.38	1,270	1,275	48.66	47.29
Edinburgh	3,101	3,121	61.30	56.94	2,432	2,256	47.53	48.14
Glasgow	9,141	8,486	51.45	50.87	7,323	7,388	44.63	43.42
Aberdeen County	927	874	55.65	49.43	-	-	-	-
Angus	769	666	46.16	40.54	595	615	37.65	32.03
Argyll	391	371	65.98	50.94	331	316	51.96	50.32
Ayr County	3,230	2,962	42.54	38.93	2,255	2,251	40.49	39.58
Banff	309	290	61.49	57.93	308	301	37.01	42.52
Berwick	168	154	58.33	50.00	135	148	37.04	34.46
Bute	105	99	50.48	39.39	70	92	52.86	55.43
Caithness	261	265	30.65	27.92	180	198	23.33	33.84
Clackmannan	367	331	26.16	16.01	267	283	39.70	71.38
Dumfries County	663	654	58.97	52.75	606	633	57.59	54.66
Dunbarton	2,178	2,087	49.36	51.13	1,491	1,436	40.64	37.33
East Lothian	464	467	68.97	60.81	363	400	52.89	53.75
Fife	2,356	2,424	48.30	41.71	1,181	1,244	47.59	39.31
Inverness County	804	698	63.06	59.89	616	589	39.29	38.88
Kincardine	171	206	50.29	41.26	169	162	24.85	29.01
Kirkcudbright	378	339	79.89	78.76	-	-	-	-
Lanark	6,278	5,916	62.25	58.16	6,136	6,088	49.54	48.23
Midlothian	1,135	1,056	54.89	48.86	685	607	41.31	40.53
Moray and Nairn	440	464	38.18	34.27	395	373	35.95	34.32
Orkney	132	113	58.33	59.29	46	54	41.30	38.89
Peebles	89	106	62.92	51.89	83	79	33.73	35.44
Perth and Kinross	899	920	37.93	31.30	757	832	24.44	21.75
Renfrew	3,517	3,365	55.10	50.10	2,439	2,441	46.33	43.79
Ross and Cromarty	406	398	54.93	51.51	430	435	22.79	17.47
Roxburgh	382	362	49.21	44.20	293	239	48.46	44.35
Selkirk	145	133	35.86	34.59	160	136	30.63	35.29
Stirling County	1,926	1,816	57.94	50.22	1,411	1,366	44.72	45.97
Sutherland	98	104	40.82	41.35	99	87	36.36	32.18
West Lothian	1,052	1,058	52.09	43.38	515	721	39.61	38.00
Wigtown	271	241	67.53	71.78	225	237	45.78	45.57
Zetland	69	60	13.04	8.33	29	13	17.24	30.77
Scotland	45,539	43,383	53.75	49.78	33,295	33,295	44.42	43.21

TABLE II
YEAR 1968/69
SCHOOL HEALTH SERVICE
Rates of Defects found per 100,000 Children Examined
ANGUS

Defect	ENTRANTS		LEAVERS	
	Boys	Girls	Boys	Girls
Chicken-pox	130	300	-	-
German Measles	130	-	-	-
Warts (verruca& infectious warts)	260	300	2,017	1,789
Athlete's foot	-	-	504	325
Pediculosis	-	-	-	163
Scabies	130	-	-	-
Congenital hypothyroidism	-	150	-	-
Diabetes Mellitus	-	150	-	325
Sub-nutrition	260	300	-	-
Coeliac Disease	130	150	-	163
Malabsorption Syndrome	-	150	-	-
Gaucher's Disease	-	-	-	163
Obesity	390	450	1,513	2,439
Lymphadenitis	-	-	168	-
Asocial personality	130	-	-	-
Defective Articulation	2,991	1,652	336	163
Habit spasm	130	-	-	-
Enuresis	1,821	601	336	-
Borderline Mental Retardation	-	150	336	163
	-	-	1,176	325
Profound Mental Retardation (Idiopathic)	-	150	-	-
Unspecified Mental Retardation	-	-	-	163
Spastic Paralysis	-	150	-	163
Epilepsy — Petit Mal	130	150	168	-
Grand Mal	-	-	504	-
Blepharitis	260	-	168	-
Refractive Errors	3,381	5,105	8,067	12,033
Strabismus	1,300	1,051	336	976
Colour blindness	-	-	3,361	488
Meibomian cyst	-	-	168	-
Acute Otitis Media	130	-	-	-
Otitis Media — Unspecified	130	-	-	-
Otitis Interna	130	-	-	-
Wax	-	601	168	650
Impaired hearing	910	601	336	488
Common Cold	4,681	4,354	504	813
Acute Sore Throat	-	-	168	-
Acute tonsillitis	130	-	-	-
Acute laryngitis	-	-	168	-
Acute bronchitis	260	-	-	-
Bronchitis	910	300	336	-
Asthma	1,040	150	1,345	1,138
Enlarged tonsils (and adenoids)	12,484	13,664	5,378	2,764
Nasal Catarrh	260	300	336	163
Dental Caries	650	1,802	336	163
Pyogenic granuloma (of oral mucosa)	-	-	168	-
Duodenal ulcer (no perforation	-	-	168	-
Inguinal hernia	130	-	-	-

Defects (continued)	ENTRANTS		LEAVERS	
	Boys	Girls	Boys	Girls
Umbilical hernia	-	-	168	-
Chronic pyelonephritis	-	150	-	150
Vaginal Discharge	-	150	-	-
Impetigo	130	-	168	-
Pilonidal cyst	130	-	-	-
Flexural eczema (infantile)	260	-	-	163
Allergic eczema - due to detergents	-	-	504	-
unspecified cause	520	150	168	-
Psoriasis	130	-	-	-
Keloid	130	-	-	-
Ingrowing nail	-	-	168	-
Alopecia	-	-	-	163
Acne	-	-	840	163
Sebaceous cyst	-	150	-	-
Urticaria	-	150	-	-
Nettle-rash	-	300	-	-
Acute arthritis	130	-	-	-
Still's disease	-	150	-	-
Torticollis	-	-	-	163
Acute osteomyelitis	-	-	168	-
Juvenile osteochondrosis of hip	-	150	-	-
Disease of Joint (effusion, loose body)	-	-	168	163
Bunion	-	-	-	163
Tenosynovitis	-	-	-	163
Adolescent postural kyphosis	-	-	336	488
Flat foot	3,641	1,502	2,017	650
Hallux valgus and varus	-	-	-	163
Knock-knee etc.	5,722	3,754	3,025	2,114
Congenital nystagmus	-	150	-	-
Accessory auricle	130	-	-	-
Ventricular septal defect	260	-	-	163
Anomalies of heart (unspecified)	-	-	336	-
Undescended testicle	130	-	-	-
Clubfoot	260	-	168	163
Congenital anomaly of lower limb	130	-	-	-
Unspecified anomaly of unspecified limb	-	-	-	325
Congenital anomalies of ribs and sternum	-	-	168	-
Pigmented naevus	130	-	168	-
Accessory nipple	-	150	-	-
Tachycardia	-	150	-	-
Swollen glands	650	601	336	-
Cramp	130	-	-	-
Fracture of vault of skull	130	-	-	163
Colles fracture	-	-	168	163
Sprain of knee and leg	-	-	-	325
Enucleation of eye	-	150	-	-
Injury to finger nail	-	-	-	163

TABLE III

YEAR 1968/69

SCHOOL HEALTH SERVICE
Rates of Defects per 100,000 Examined by Social Class

10% Sample

ANGUS

ENTRANTS										LEAVERS					
Defect	SOCIAL CLASS					OTHER OR NOT STATED	TOTAL	SOCIAL CLASS					OTHER OR NOT STATED	TOTAL	
	1	2	3	4	5			1	2	3	4	5			
Viral Warts (Verruca, Boys Warts (Infectious)) Girls	-	-	-	-	-	-	-	7,143	6,250	-	-	-	4,839		
Pityriasis Versicolor	-	-	-	-	-	-	-	3,845	6,667	-	-	-	3,333		
Protein Malnutrition	-	-	-	-	12,500	-	1,316	3,571	-	-	-	-	1,613		
Obesity not specified as of Endocrine Origin	-	-	-	-	-	-	-	-	-	-	-	-	-		
Special Symptoms not elsewhere classified	-	25,000	2,703	-	-	25,000	5,263	-	6,250	-	-	-	1,613		
Enuresis	-	-	2,703	-	-	25,000	1,887	-	-	-	-	-	-		
Mental Retard- ation — Other and unspecified	-	-	-	-	-	-	1,316	-	-	-	-	-	-		
Refractive Errors	-	-	2,703	-	-	25,000	2,632	-	-	7,143	-	-	3,226		
Strabismus	-	12,500	-	6,250	-	-	1,887	8,333	3,571	13,333	20,000	-	13,333		
	-	-	-	-	-	-	3,774	-	-	3,846	-	-	-		
	-	-	-	6,250	-	-	-	-	-	-	-	-	1,667		

ENTRANTS					LEAVERS										
Defect	SOCIAL CLASS					OTHER OR NOT STATED	TOTAL	SOCIAL CLASS					OTHER OR NOT STATED	TOTAL	
	1	2	3	4	5			1	2	3	4	5			
Colour Blindness	-	-	-	-	-	-	-	3,571	-	-	-	-	16,667	-	3,226
Wax in Ear	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Impairment of Hearing, One or Both Ears	-	-	-	-	12,500	-	1,316	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	3,846	-	-	-	-	-	-	1,667
Acute Nasopharyngitis (Common Cold)	-	-	8,108	5,556	-	-	5,263	-	-	-	-	-	-	-	-
	-	-	5,000	6,250	-	-	3,774	-	-	-	6,667	-	-	-	1,667
Asthma	-	-	-	-	-	-	-	-	-	-	6,250	-	16,667	-	3,226
Hypertrophy of Tonsils and Adenoids	-	25,000	10,811	5,556	25,000	25,000	13,158	-	-	-	-	-	-	-	-
	-	12,500	30,000	12,500	-	-	16,981	-	-	-	-	-	25,000	-	1,667
Chronic Nasopharyngitis	-	-	-	-	-	-	-	3,571	-	-	-	-	-	-	1,613
Infantile Eczema and Related Conditions	-	-	5,000	-	-	-	1,887	-	-	-	-	-	-	-	-
	-	-	2,703	-	-	-	1,316	-	-	-	-	-	-	-	-
Other Eczema and Dermatitis	-	-	-	-	-	-	-	-	16,667	-	-	-	-	-	1,613
Unspecified Cause	-	-	2,703	-	-	-	1,316	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Acne	-	-	-	-	-	-	-	-	-	-	-	-	-	20,000	1,613
Urticaria — Other and Unspecified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	12,500	-	-	-	-	1,887	-	-	-	-	-	-	-	-

ENTRANTS										LEAVERS					
Defect	SOCIAL CLASS					OTHER OR NOT STATED	TOTAL	SOCIAL CLASS					OTHER OR NOT STATED	TOTAL	
	1	2	3	4	5			1	2	3	4	5			
Bunion	Boys	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Girls	-	-	-	-	-	-	-	-	-	-	-	-	1,667	
Flat Feet	Boys	-	-	8,108	5,556	-	5,263	-	-	3,571	-	-	-	1,613	
	Girls	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other Deformities	Boys	100,000	12,500	-	-	-	3,947	-	-	3,571	6,250	-	-	3,226	
	Girls	50,000	-	-	-	-	1,887	-	-	-	-	-	-	-	
Ventricular Septal Defect	Boys	-	-	2,703	5,556	-	2,632	-	-	-	-	-	-	-	
	Girls	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other and Un-specified Anomaly of Unspecified Limb	Boys	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Girls	-	-	-	-	-	-	-	-	3,846	-	-	-	1,667	
Tachycardia	Boys	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Girls	-	-	5,000	-	-	1,887	-	-	-	-	-	-	-	
Effects of Car Accidents	Boys	-	-	-	-	-	-	-	16,667	-	-	-	-	1,613	
	Girls	-	-	-	-	-	-	-	-	-	-	-	-	-	
Effects of Other Accidents	Boys	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Girls	-	-	-	-	-	-	-	-	-	6,667	-	-	1,667	

SCHOOL HEALTH SERVICE
AVERAGE HEIGHTS AND WEIGHTS BY AUTHORITIES
BY E. A. AREA AND SCOTLAND

Local Authority	ENTRANTS				LEAVERS			
	BOYS		GIRLS		BOYS		GIRLS	
	Height (Ins.)	Weight (Lbs.)	Height (Ins.)	Weight (Lbs.)	Height (Ins.)	Weight (Lbs.)	Height (Ins.)	Weight (Lbs.)
Aberdeen	43.33	43.72	43.06	42.58	-	-	-	-
Dundee	42.66	42.29	42.36	41.02	60.65	98.01	60.76	104.16
Edinburgh	43.01	42.74	42.71	41.66	60.66	98.68	60.98	106.13
Glasgow	42.47	42.15	42.22	41.10	59.91	97.15	59.97	101.68
Aberdeen County	43.66	44.52	43.15	43.15	-	-	-	-
Angus	44.00	45.14	43.52	43.44	61.04	103.20	61.19	107.27
Argyll	43.97	44.70	43.32	43.10	61.07	102.05	61.04	106.88
Ayr County	43.37	43.36	43.08	42.30	61.23	101.64	61.02	105.17
Banff	43.49	44.06	43.04	42.71	60.29	99.77	60.37	104.20
Berwick	42.88	42.26	42.64	41.61	61.09	102.77	61.74	110.44
Bute	43.26	43.42	42.90	42.53	61.19	101.97	60.74	106.00
Caithness	43.59	44.98	43.12	42.94	61.02	101.51	61.26	108.48
Clackmannan	42.29	42.31	42.01	41.57	60.04	98.16	59.92	105.81
Dumfries County	43.87	43.66	43.29	42.39	60.73	98.24	61.12	105.77
Dunbarton	43.37	42.82	42.91	41.33	60.52	99.17	60.67	104.06
East Lothian	43.83	44.57	43.11	42.37	60.69	102.58	61.15	108.51
Fife	42.84	42.49	42.48	41.22	60.84	98.73	60.83	103.59
Inverness County	43.10	43.65	42.69	42.36	61.33	102.81	61.03	106.68
Kincardine	44.17	44.50	43.59	42.31	60.64	99.66	60.86	103.46
Kirkcudbright	43.98	44.07	43.42	42.81	-	-	-	-
Lanark	43.60	43.37	43.32	42.24	61.23	100.67	61.09	105.79
Midlothian	44.01	43.94	43.59	42.72	61.27	101.32	60.84	105.46
Moray and Nairn	42.80	42.58	42.60	41.94	61.10	101.10	61.08	105.02
Orkney	44.70	45.20	43.96	44.63	62.09	108.37	60.91	107.70
Peebles	43.85	45.73	43.56	43.55	61.88	103.52	61.52	106.62
Perth and Kinross	43.23	43.44	42.98	42.43	61.63	104.06	61.51	109.25
Renfrew	43.09	42.71	42.56	41.08	60.37	98.13	60.35	102.40
Ross and Cromarty	42.94	43.84	42.75	43.05	61.09	104.14	61.23	108.37
Roxburgh	42.74	42.69	42.46	42.18	60.65	98.19	61.11	107.50
Selkirk	42.52	41.18	42.26	40.39	60.62	98.48	61.17	102.51
Stirling County	44.11	45.02	43.91	44.14	61.38	102.74	61.25	107.67
Sutherland	44.09	45.00	44.22	44.13	61.39	103.72	61.13	109.11
West Lothian	42.98	42.21	42.69	41.11	61.01	98.65	60.80	103.22
Wigtown	43.30	42.84	42.77	41.56	61.26	99.76	61.68	106.13
Zetland	45.36	48.52	44.57	46.87	62.41	114.52	63.00	112.46
Scotland	43.18	43.09	42.84	41.90	60.73	99.65	60.73	104.63

TABLE V

YEAR 1968/69

SCHOOL HEALTH SERVICE
AVERAGE HEIGHTS AND WEIGHTS BY SOCIAL CLASS
10% Sample
Angus

Social Class	ENTRANTS			LEAVERS		
	BOYS		GIRLS		BOYS	
	Height (Ins.)	Weight (Lbs.)	Height (Ins.)	Weight (Lbs.)	Height (Ins.)	Weight (Lbs.)
1	47.00	46.00	42.00	41.50	61.00	76.00
2	43.88	44.25	43.88	43.13	65.50	126.83
3	43.62	44.32	43.25	41.55	61.61	107.14
4	44.83	46.56	44.00	45.06	58.50	92.25
5	43.00	42.25	44.00	42.23	61.00	113.17
OTHER OR NOT STATED	43.75	47.50	42.75	41.75	64.60	114.60
TOTAL	43.92	44.82	43.53	42.91	61.35	105.89
					60.68	103.85

TABLE V

YEAR 1968

SCHOOL HEALTH SERVICE

AVERAGE HEIGHTS AND WEIGHTS BY SOCIAL CLASS

10% Sample

Scotland

Social Class	ENTRANTS				LEAVERS			
	BOYS		GIRLS		BOYS		GIRLS	
	Height (Ins.)	Weight (Lbs.)	Height (Ins.)	Weight (Lbs.)	Height (Ins.)	Weight (Lbs.)	Height (Ins.)	Weight (Lbs.)
1	44.18	45.36	43.71	43.21	61.94	103.21	61.87	108.48
2	43.86	44.55	43.49	43.47	61.50	104.34	61.32	106.07
3	43.19	43.11	42.89	41.95	60.79	99.92	60.84	104.30
4	43.22	43.19	42.79	41.83	60.55	99.06	60.79	105.54
5	42.55	42.09	42.06	40.34	59.83	95.45	59.94	101.49
OTHER OR NOT STATED	42.62	42.36	42.24	40.80	60.26	98.09	60.21	104.85
TOTAL	43.17	43.16	42.82	41.84	60.69	99.59	60.75	104.55

TABLE VI

YEAR 1968/69

SCHOOL HEALTH SERVICE

AVERAGE HEIGHTS AND WEIGHTS BY NUMBER IN FAMILY

ANGUS

No. in Family	ENTRANTS				LEAVERS			
	BOYS		GIRLS		BOYS		GIRLS	
	Height (Ins.)	Weight (Lbs.)	Height (Ins.)	Weight (Lbs.)	Height (Ins.)	Weight (Lbs.)	Height (Ins.)	Weight (Lbs.)
1	44.01	44.33	43.28	42.35	61.67	109.13	61.40	112.23
2	44.38	45.85	43.87	43.59	61.52	106.75	61.50	108.42
3	43.94	45.16	43.38	44.03	61.07	101.63	61.07	105.97
4	43.39	43.80	43.16	42.46	60.51	100.03	60.97	105.75
5	43.57	44.90	43.76	44.00	60.50	101.37	61.03	104.88
6	43.55	45.10	42.31	41.13	61.08	100.38	60.76	108.80
7	43.00	44.50	43.86	45.14	58.78	88.11	61.26	108.89
8	45.00	45.50	41.00	42.00	59.80	88.40	61.40	107.80
9	45.00	46.00	-	-	58.00	98.67	61.00	102.00
10	-	-	42.00	42.00	58.75	93.75	-	-
11	-	-	43.00	42.00	64.00	90.00	-	-
12	-	-	-	-	-	-	-	-
13	-	-	-	-	57.00	91.00	58.00	99.00

TABLE VI

YEAR 1968

SCHOOL HEALTH SERVICE

AVERAGE HEIGHTS AND WEIGHTS BY NUMBER IN FAMILY

SCOTLAND

No. in Family	ENTRANTS			LEAVERS		
	BOYS		GIRLS		BOYS	
	Height (Ins.)	Weight (Lbs.)	Height (Ins.)	Weight (Lbs.)	Height (Ins.)	Weight (Lbs.)
1	43.64	44.04	43.33	43.07	61.77	107.25
2	43.55	43.70	43.22	42.63	61.38	103.02
3	43.23	43.15	42.93	41.98	60.94	100.20
4	42.92	42.63	42.55	41.28	60.57	98.27
5	42.66	42.18	42.31	40.86	60.20	96.97
6	42.42	41.85	42.01	40.44	59.94	95.38
7	42.36	41.74	41.83	40.20	59.56	93.90
8	42.11	41.39	41.74	39.82	59.40	93.34
9	42.14	41.55	41.61	39.61	59.47	93.37
10	41.77	41.13	41.84	40.06	59.32	93.61
11	42.00	41.19	41.49	39.85	59.54	95.48
12	41.89	41.02	41.93	40.25	59.99	96.73
13	42.09	42.14	42.37	41.63	58.79	90.08
14	42.45	41.55	41.60	40.00	59.73	95.77
15	42.50	43.50	42.25	41.75	59.80	97.80
16	46.00	45.00	40.50	34.50	59.25	94.00
17	-	-	39.00	32.00	-	-
18	-	-	-	-	-	-
19	-	-	-	-	58.00	88.00

WORK DONE BY NURSING STAFF IN SCHOOL MEDICAL SERVICE

	No. of Children seen	No. of visits to schools	Unsatisfactory cleanliness Bad Clothing & Footwear	Vermine Body	Head	Nits	Plantar Warts	Ringworm	Scabies
Burgh Schools	45,045	657	81	-	20	150	178	1	58
Rural Schools	19,163	538	26	-	23	23	21	-	14
Total	64,208	1,195	107	-	43	173	199	1	72

NUMBER OF NOTICES SENT TO PARENTS

	Vermine Body	Head	Nits	Unsatisfactory cleanliness Bad Clothing & Footwear	Scabies	Home Visits
Burgh Schools	-	18	48	33	56	1,033
Rural Schools	-	8	5	1	6	251
Total	-	26	53	34	62	1,284

PUBLIC HEALTH DEPARTMENT,
RAVENSWOOD.
FORFAR. 15th JANUARY, 1971

To –
The County Council of Angus and
The Scottish Home and Health Department.

Ladies and Gentlemen,

As requested by the Scottish Home and Health Department in Circular No. 2/69 I herewith submit Report for the year 1969.

This report deals briefly with most of the functions carried out by the Sanitary Department and includes a section on River Pollution Prevention.

I am,
Your obedient Servant,

ROBERT A. TAYLOR,
County Sanitary Inspector

MILK (SPECIAL DESIGNATIONS)(SCOTLAND) ORDER, 1965

The following table shows the number of licences in each category.

Designation	Licences held on 31.12.68	New licences granted	Licences suspended	Licences revoked	Licences discontinued for other reasons	Licences held on 31.12.69
Premium	21	1	-	-	2	20
Standard	85	1	-	-	6	80
Pasteurised	1	-	-	-	-	1
Sterilised	-	-	-	-	-	-

ABSTRACT OF BACTERIOLOGICAL SAMPLES FOR YEAR

No. of Bacteria per ml.

		Premium	Standard
Between	0 - 2,000	96	103
	2,000 - 10,000	75	266
	10,000 - 15,000	39	190
	15,000 - 50,000	10	98
over	50,000	23	38

	Premium	Standard
No. of Samples taken	243	695
No. of samples which passed count test	220	657
B. coli present in 1/100th	45	-
B. coli present in 1/1000th	-	61

Of the 938 samples taken, 814 or 86.78% complied with the bacteriological requirements of the Milk (Special Designations)(Scotland) Order 124 or 13.22% did not comply in the following respects:-

43 exceeded the bacterial count and coliform bacilli were also present.

63 showed the presence of coliform bacilli and had low counts.

18 exceeded the bacterial count with no coliform bacilli present.

No. of dairymen who complied in every case	...	...	...	56
No. of dairymen who failed once	...	...	...	26
No. of dairymen who failed twice	...	...	...	14
No. of dairymen who failed three or more times	...	...	...	16

SCHOOL MILK

18 samples of school milk were taken. 7 of these samples were of Standard milk. 3 of these samples failed the statutory tests. 11 samples were of Pasteurised milk. 2 of these samples failed the statutory tests.

Since August, 1969 all the schools in the County of Angus have been supplied with Pasteurised milk.

PASTEURISING PLANT

18 samples of milk were taken from the Pasteurising Plant at Brechin. 3 samples failed the statutory tests. These failures when investigated were found to be due to the unsatisfactory water supply in the dairy.

BULK MILK TANKS

By the end of 1969, 87 bulk milk tanks had been installed.

IMPROVEMENTS AT FARMS IN ORDER TO SAVE LABOUR COSTS

There are now 37 milking parlours in the County and 33 producers have installed round-the-shed milk pipe-lines. 13 producers have installed automatic washing equipment for their bulk tanks.

BRUCELLOSIS

Since 1968, every sample of milk taken by this Department and submitted to the bacteriologist was subjected to the Brucellosis Ring Test.

16 farms showed continuous positive results. All farmers were informed of the bacteriologist's findings.

FOOD HYGIENE

Routine inspections of food premises continue.

Special attention was given to hotel, restaurant and canteen kitchens where food preparation is carried out and where it is most at risk.

Three members of my Staff are presently attending the Course in Advanced Food Hygiene which is being run by the Royal Sanitary Association in conjunction with the University of Dundee.

ICE CREAM

Number of applications for registration granted during the year:-

in respect of premises	-	6
in respect of vehicles	-	1

Number of registrations in force at 31st December was as follows:-

Premises for Manufacture, Storage and Sale	-	16
Premises for Storage and Sale	-	26
Vehicles	-	8

Fifty-seven samples of ice-cream were taken for both bacteriological and chemical testing. There were fourteen bacteriological failures as a result of which the offending premises and plants were inspected and follow-up samples taken. A survey was carried out during the year of all registered premises and vehicles and it found a number had gone out of business or gone over to pre-packed ice-cream. These registrations were therefore cancelled and a new ice-cream register compiled.

FOOD SAMPLING

A total of two hundred and sixteen samples of foodstuffs were taken for analysis. Thirty eight were taken formally.

Article	No. Analysed		Non-Genuine		Remarks
	Formal	Informal	Formal	Informal	
Bacon Burger	-	1	-	-	See Note A
Beef Burgers	-	6	-	4	
Bicarbonate of Soda	-	1	-	-	
Browning	-	1	-	-	See Note B
Butter	-	3	-	2	
Caster Sugar	-	1	-	-	
Cereals	-	3	-	-	See Note C
Chicken Cutlets	-	1	-	1	
Cock tail Onions	-	1	-	-	
Confectionery	-	2	-	-	See Note D
Cornish Pasty	-	2	-	1	
Cooking Fat	-	1	-	-	
Creamed Potato	-	1	-	-	See Added Note
Dried Fruit	-	1	-	-	
Forfar Bridies	-	5	-	-	
Flavouring Syrup	-	1	-	-	See Note E
Food Colour	-	1	-	-	
Flour	-	2	-	-	
Fish Batter Mix	-	1	-	-	See Note F
Gravy Salt	-	1	-	-	
Hamburger	-	1	-	-	
Herb Cheese	-	1	-	-	See Note G
Ice-Cream	1	56	-	-	
Kipper Snacks	-	1	-	-	
Liver Sausage	-	1	-	-	See Note H
Margarine	-	2	-	-	
Milk	10	25	1	4	
Mixed Herbs	-	1	-	-	See Note I
Mince	7	-	-	2	
Pate	-	2	-	-	
Processed Peas	-	2	-	-	See Note J
Sausages	1	13	-	1	
Sausage Rolls	-	3	-	-	
Scottish Pies	-	9	-	1	See Note K
Sauce	-	1	-	-	
Steakettes	-	2	-	1	
Spreads	-	5	-	-	See Note J
Strained Food	-	1	-	-	
Soup	-	1	-	1	
Sponge Mix	-	1	-	-	See Note K
Squash	-	1	-	-	
Semolina	-	2	-	-	
Spirits	19	-	-	-	See Note K
Table Jellies	-	3	-	-	
Tea	-	1	-	-	
Tinned Milk	-	2	-	1	See Note K
Tinned Tomatoes	-	1	-	-	
Tinned Steak	-	2	-	-	
Un-cooked Meat	-	1	-	-	See Note K
Pie	-	1	-	-	
Yoghurt	-	1	-	-	
TOTAL	38	178	1	19	

Twenty samples were reported on adversely as follows:-

- (a) Test sample No. 22 of Beefburgers did not conform to the Sausage & Other Meat Products (Scotland) Regulations, 1967 in that it was deficient in meat content to the extent of 15%.

Test sample No. 79 of Beefburgers found to be deficient in meat to extent of 15%.

Test sample No. 81 of Beefburgers found to be deficient in meat to extent of 14%.

Action:- These samples were taken to ensure that manufacturers' recipes were in accordance with Regulations coming into force on 31st May, 1969.

- (b) Test sample No. 180 of Butter was found to be deficient in milk solids not fat.

Action:- Letter to manufacturers

Test sample No. 214 of Butter found to have misleading label.

Action:- Wording of label altered.

- (c) Test sample No. 195 of Chicken Cutlets was found to be deficient in meat to extent of 22.8%.

Action:- Warning letter to manufacturer.

- (d) Test sample No. 16 of Cornish Pasty examined in terms of Meat Pie & Sausage Roll (Scotland) Regulations, 1967 was found to contain no meat. Satisfactory on re-sampling.

- (e) Test sample No. 96 of Premium milk deficient in fat to extent of 4.27%
Formal sample No. 98 of Premium milk deficient in fat to extent of 2.86%

Test sample No. 215 of Premium milk deficient in fat to extent of 0.71%

Test sample No. 69 of Premium milk deficient in fat to extent of 9.35%

Test sample No. 71 of Premium milk deficient in fat to extent of 7.75%

- (f) Formal sample No. 28 of mince had SO_2 present outwith permitted period.

Formal sample No. 29 of mince had SO_2 present outwith permitted period.

Action:- Warning letters.

- (g) Test sample No. 114 of Pork Sausage deficient in lean meat to extent of 7.7%. New product being marketed. Recipe altered to comply.

- (h) Test sample No. 24 of Scottish Pies deficient in meat to extent of 24%.

Action:- Warning letter to advise manufacturers of standards expected after 31st May, 1969.

- (i) Test sample No. 78 of steakettes found to contain preservative.
Action:- Warning letter.
- (j) Test sample No. 177 of Cream of Chicken Soup found to contain no butter fat.
Action:- Manufacturers and Public Analyst investigating.
- (k) Test sample No. 175 of Tinned Evaporated Milk did not conform to Condensed Milk (Scotland) Regulations, 1959 in that it was deficient in fat to extent of 2.2%.
Action:- Manufacturer investigating.

In addition, Test sample No. 11 of Ice Lolly flavouring did not conform to requirements of Labelling of Food Order, 1953 in that manufacturer's name and address were not stated.

Test sample No. 73 of Premium milk was found to have 0.02 I.U.s. of penicillin per millilitre of milk. Follow-up sample T/160 found satisfactory.

UN SOUND FOOD

The following foodstuffs were seized as being unfit for human consumption:-

	Weight (in lbs.)
(a) Tinned Foods:-	
Cooked Ham	202
Pork Products	178
Corned Beef	108
Steak	56
Fruit	840
Soup	352
Milk Products	84
Vegetables	60
Miscellaneous	32
(b) Fresh Meat:-	
Beef	130
Pork	83
Hamburgers	18
(c) Frozen Foods:-	
Meat Products	33
Fish Products	38
Chicken	153
Duckling	5
Pastry	12
Vegetables	27
Ice Cream	18
(d) Miscellaneous:-	
Confectioneries	896
Total Weight of food seized	<u>3,325</u>

MEAT INSPECTION

The inspection of all animals slaughtered in the public slaughterhouse at Forfar and the private slaughterhouse at Brechin is carried out by this Department. The following tables detail the number of animals slaughtered and the quantities of meat condemned.

FORFAR

	Slaughtered	Wholly Condemned	Partially Condemned	Weight (in lbs.) of Condemned	
				Meat	Offal
Cattle	5,693	90	2,347	40,463	32,555
Sheep	4,960	57	95	2,787	601
Pigs	1,594	20	147	3,890	855
Calves	209	8	2	489	100
Totals	12,456	175	2,591	47,629	34,111

BRECHIN

	Slaughtered	Wholly Condemned	Partially Condemned	Weight (in lbs.) of condemned	
				Meat	Offal
Cattle	2,069	42	546	16,608	9,182
Sheep	2,174	59	44	2,718	280
Pigs	2,835	53	210	5,816	310
Calves	501	44	4	1,899	189
Totals	7,579	198	804	27,041	9,961

PUBLIC CLEANSING

The extension to the County Scavenging Scheme inaugurated in 1968 continues to operate satisfactorily. The vast majority of the ratepayers within this area made use of the scheme from its commencement, but, despite the publicity given it would appear that a small number were unaware of the new service. Throughout the months of 1969, however, the numbers using the service have increased steadily and it could now be assumed that everyone wishing to use the service is doing so. Certain places with difficult access or other problems were investigated and satisfactory solutions obtained.

Preparatory work in planning the future extension to the Scheme to include a further twenty-two parishes has commenced.

Some initial clearing up work has been done under Civic Amenities Act, 1967 on sites in the County area where indiscriminate dumping has been taking place and provisions are being made to continue and extend this work in 1970.

FACTORIES

The number of factories on the register at the end of the year was 124.

With the continuing use of power in factories the number of non-mechanical factories included in the total is 3.

In 5 factories defects relative to the sanitary conveniences were found.

Want of Cleanliness (Section 7)	4
Lack of Intervening Ventilated Space (Section 7)	1

All have been remedied.

COMPLAINTS & NUISANCES

The following complaints and nuisances were dealt with during the year:-

Water Supply	...	...	...	...	...	7
Drainage	...	...	...	...	...	15
Housing	...	...	...	...	...	10
Accumulation of Manure or Refuse	...	...	...	...	...	7
Offensive Smells	...	...	...	...	...	13
Smoke	...	...	...	...	...	4
Noise	...	...	...	...	...	-
Rats	...	...	...	...	...	9
Piggery	...	...	...	...	...	-
Pollution of Ditches etc.	...	...	...	...	...	13
Insects	...	...	...	...	...	5
Foreign Matter in Food	...	...	...	...	...	4
Miscellaneous	...	...	...	...	...	12
						<u>99</u>

PREVENTION OF DAMAGE BY PESTS ACT, 1949

The total number of visits made by District Inspectors and Pest Officer was 2,286 and the number of treatments required was 412.

The latter figure comprised 405 rat infestations. 1 property infested with mice and 6 churchyards where moles were troublesome. Warfarin continues to be fully effective in the continued control of rates and mice.

WATER SUPPLY

Forty-eight samples of water were taken, thirty-one as a result of complaints or for information of the County Water Engineer, fifteen for information of the Medical Officer of Health and two for grant purposes. The routine sampling of mains water was taken over in May by the East of Scotland Water Board but in November, at the request of the Medical Officer of Health, this Department resumed sampling for bacteriological testing only, of mains supplied by Loch Lee and Lintrathen Loch.

CARAVAN SITES & CONTROL OF DEVELOPMENT ACT, 1960

During the year proceedings were taken against a Site Owner for failure to comply with the undernoted Site Licence Conditions:-

1. That a maximum of twenty-four caravans be stationed on the site. (There were seventy-two at one point in the season).
2. That the caravans be sited at least twenty feet apart.
3. That portable hose reels of sufficient length to reach the furthest caravan be provided.
4. That a copy of the site licence be displayed.

At Forfar Sheriff Court the Site Owner was fined £50 for exceeding the permitted maximum number of caravans and £10 for failing to comply with the spacing conditions. He was admonished on the other two breaches of his site licence conditions.

OFFICES, SHOPS & RAILWAY PREMISES ACT, 1963

1. REGISTRATION & INSPECTIONS

A number of new registrations were made during the year. The most notable was the office accommodation at Bullionfield, Invergowrie, for the East of Scotland Water Board.

Inspections of all the newly registered premises and most of the others were carried out and where defects were found they were notified to the employers concerned.

2. OPERATION

Defects noted on inspection continue to be of a minor nature. A special effort was made to draw the attention of occupiers to the lighting standards detailed in the 1968 Code of Practice of the Illuminating Engineers Society.

3. ACCIDENTS

For the first time since the introduction of the Act, an accident was notified to this Authority.

Reported by the British Broadcasting Corporation, it was of a minor nature.

4. PROSECUTIONS

No prosecutions were undertaken.

TABLE A — Registrations and General Inspections

Class of premises	Number of premises newly registered during the year	Total number of registered premises at end of year	Number of registered premises receiving one or more general inspections during the year
(1)	(2)	(3)	(4)
Offices	3	29	27
Retail Shops	1	29	27
Wholesale shops, warehouses	2	3	2
Catering establishments open to the public, canteens	3	23	19
Fuel storage depots	-	-	-
TOTALS	9	84	75

TABLE B

**Number of Visits of all Kinds (including General Inspections)
to Registered Premises**

118

TABLE C

**Analysis by Workplace of Persons Employed in Registered
Premises at end of year**

Class of workplace	Number of persons employed
(1)	(2)
Offices	131
Retail Shops	60
Wholesale Departments, Warehouses	24
Catering establishments open to the public	142
Canteens	-
Fuel storage depots	-
TOTAL	357
Total Males - 166	Total Females - 191

THE BUILDING STANDARDS (SCOTLAND) REGULATIONS, 1963

There was a slight increase in the number of applications for warrant dealt with during the year compared with last year.

In the five complete years since the Building Regulations came into operation, the number of warrants and the value of the work has increased steadily from 346 warrants representing a value of £673,172 in 1965 to 426 warrants representing a value of £1,030,835 in 1969. Of course, part of the increased capital value of the work represents rising building costs between 1965 and 1969.

The Draft Amendment Regulations mentioned in last year's report had not come into operation by the end of year.

During the year a small number of plans in the private sector were drawn to metric dimensions but this will not be a mandatory requirement in the private sector until approximately 1972.

Details of Warrants granted:-

	Public	Total Value	Private	Total Value
Houses	6	£79,900	126	£487,121
Schools	6	29,600	-	-
Shops	-	-	1	-
Offices	-	-	3	5,350
Factories	-	-	4	60,000
Miscellaneous	7	14,750	68	297,492

Refusals — Nil

Details of Minor Warrants granted:-

	Public	Total Value	Private	Total Value
Houses	-	-	114	£ 35,456
Schools	-	-	-	-
Shops	-	-	3	900
Offices	-	-	3	1,430
Factories	-	-	2	875
Miscellaneous	-	-	83	17,961

Refusals — Nil

BUILDING (SCOTLAND) ACT, 1959 – PART III
DANGEROUS BUILDINGS

Three properties were dealt with under this section during the year.

1. At Lunanhead a brick base wall of a former greenhouse was in danger of collapsing on to a neighbour's ground. This wall was taken down by the owner of the property.
2. The chimneyhead of a house at Tannadice was badly holed and off plumb and in danger of falling on to the public road. The owner had this chimneyhead demolished.
3. It was reported that a former army block house at Lunan Bay was in a potentially dangerous condition. On inspection it appeared that an abortive attempt had been made to demolish it and that the remaining structure could present a risk to people frequenting the beach. After discussion with the Army Authorities, the Royal Engineers demolished the remaining structure.

ANGUS COUNTY COUNCIL AS RIVER PURIFICATION AUTHORITY

Information as to Water Resources:

1. Rainfall: Rainfall records of the River North Esk Catchment area are available and may be inspected at the office of the County Sanitary Inspector, Ravenswood, Forfar.
Six rain gauges are maintained by the East of Scotland Water Board and I am indebted to the Engineer who makes the records available to this Department. Daily readings are taken from four of the gauges, while the remaining two are recorded monthly. The monthly exchange of the rainfall recorded at Whitehillocks and at the Climatological Station R.A.F., Edzell with the County Sanitary Inspector, Stonehaven, continues but owing to a personnel change at the Edzell Station the July-December records were not available.

2. Characteristics of Streams: Routine sampling of the rivers North and South Esk is carried out regularly.

Routine sampling of the River North Esk is effected in co-operation with Kincardine County River Purification Authority and the Analysts' reports on all samples are exchanged.

All records are available for inspection at the office of the County Sanitary Inspector.

3. Abstraction of Water: No action was taken by this Authority during the year.

4. General: The rainfall records of (a) five gauging stations in the catchment area of the River North Esk for the complete year, (b) the Edzell Station for the first six months of the year and (c) the gauge daily readings at the Kinnaber Waterworks for the month of December are given in Appendix A.

January and May were months of heavy rainfall, the period July to October was marked by a below average rainfall.

The three river gauges maintained by the East of Scotland Water Board are all in relation to the River North Esk. Two of the gauges are sited on the Water of Lee which forms the Loch and the third gauge is on the Water of Mark.

PREVENTION OF POLLUTION

Quality of River Water:

The quality of the water flowing in the main rivers continues to be satisfactory. The routine samples taken in the Rivers North and South Esk, in accord with the Analyst's reports show a classification variation from Very Clean to Clean.

The classification scale for stream water recommended by the Royal Commission on Sewage Disposal is used as follows:-

Character of Stream Classification						B.O.D. on Five days (p.p.m.)
Very Clean	...	...	...	...	...	1
Clean	...	...	...	...	...	2
Fairly Clean	...	...	...	...	...	3
Doubtful	...	...	...	...	...	5
Bad	...	...	...	...	...	10

Details of the forty-nine samples of stream water taken during the year are shown in Appendix B.

A map of the area of the River Authority showing the river systems and sampling points is inserted at the end of this report.

STANDARDS APPLIED TO EFFLUENTS

The undernoted standards have been used to assess the suitability of any sewage effluent discharged into a stream.

1. The biochemical oxygen demand (B.O.D.) in five days at 20°C not to exceed 20 p.p.m.
2. The suspended solids content, dried at 105°C not to exceed 30 p.p.m.
3. The pH value to be between five and nine.
4. The oxygen absorbed from acid N/80 permanganate in four hours at 26.7°C not to exceed 20 p.p.m.
5. Arsenic, copper or chromium, either individually or in toto, not to exceed 0.5 p.p.m.
6. Cyanide (as CN) not to exceed 0.1 p.p.m.
7. No visible oil or grease to be present.
8. The clarity to be at least 225mm.
9. The discharge not to contain any toxic substances harmful to fish or other aquatic fauna.

The standards presently used to determine the quality of the sewage effluent discharged from Brechin Sewage Purification Works differ in respect of the B.O.D. which should not exceed 200 p.p.m. and the suspended solids content which should not exceed 100 p.p.m.

In the cases of plants providing full treatment except for the settlement of filter effluent, it is expected that when a sample of the effluent is given quiescent settlement for one hour the supernatant liquid shall conform to the above standards.

Plants providing only sedimentation, or septic tanks, are expected to discharge an effluent with less than 100 parts per million solids in suspension. Effluents discharging to watercourses which have less than eight volumes of water available as dilution have to conform to more stringent standards.

Trade effluents merit individual assessment.

SAMPLES AND ANALYSIS OF EFFLUENTS

SEWAGE EFFLUENTS

The analyst's findings on the thirty-four samples of sewage effluent (including five from Brechin Sewage Purification Works) discharging to streams are tabulated below.

The B.O.D. and/or suspended solids were reported to exceed the standards in twenty-eight of the samples analysed. In all other instances no cause for complaint was found.

The lowest and highest figures are expressed in parts per million.

	No Report	Satisfactory	Unsatisfactory	Lowest	Highest
B.O.D.	1	6	27	10.4	302
Suspended Solids	5	18	11	4	149

TRADE EFFLUENTS

One sample of tank effluent was taken and analysed.

Date	Source	B.O.D.	Suspended Solids	Remarks
27.5.69	Dairy Farm	1,290	222	Action Pending

NEW OUTLETS AND DISCHARGES

All plans and proposals submitted to the County Council involving new drainage and discharges to streams within the Authority's area are carefully considered. Should it be possible to dispose satisfactorily of the effluent by some means other than to a watercourse, the promoter is advised accordingly.

This procedure has effected a considerable reduction in the number of applications for consent to new outlets and for new discharges to be dealt with.

	New Outlets	New Discharges
(a) Number of applications in hand at the beginning of the year	-	-
(b) Number of applications received during the year	11	-
(c) Number of consents issued	11	-
(d) Number of consents refused	-	-
(e) Number of applications in hand at end of the year	-	-

SEWAGE AND TRADE EFFLUENTS

No developments have been made during the year which could adversely affect the quality of the streams.

REMEDIAL ACTION

- (a) The following work of a minor nature was done during the year to remove pollutions of streams:-

River South Esk

WESTER LEDNATHIE – Conservation tank provided.
 EAST PITFORTHIE – Tile drain installed in grass silage pit.
 DERACHY FARM – 600 gallon sealed tank provided.
 NEAR JUSTINHAUGH BRIDGE – Waste carrots removed.
 NORANSIDE BORSTAL INSTITUTION – Improvement works to existing sewage purification plant commenced.
 LEUCLANDS FARM, BRECHIN – Silage effluent diverted from burn to soakpit.
 CARCARY FARM – Overflow from silage liquor pit sealed and ditch cleaned out.

River North Esk

NEWTON OF STRACATHRO – 4 sealed tanks for silage effluent provided.
 BALFOUR FARM – Holding tank provided for silage effluent.
 MILL LADE, CRAIGO – 2 private refuse dumps polluting lade cleared up.
 CRAIGO BURN – Private refuse tips tidied and polluting matter removed.
 MILL OF BALROWNIE – Midden pollution removed.

Lunan Water

SAND WASHERY – Settling lagoon cleaned out.
 DRUMBERTNOT DAIRY FARM – Overflow pipe of slurry tank sealed.

(b)

No legal actions were taken during the year.

RESEARCH

There is nothing to report under this heading.

OTHER GENERAL INFORMATION

Thirteen complaints of alleged pollution of streams (two involving fish mortalities) were thoroughly investigated and are all tabulated below with a note of any action required. Included in the table are details of pollution found during routine inspection work.

Nature	No.	Observed Pollution	Remarks
Tributary discharge	1	-	No cause for complaint
Foam on estuary	1	-	No action required
'Sewage Fungus' in stream	1	-	No action required
Dairy Farm Wastes	1	1	(1) See 'Remedial Action' (2) Farmer warned - restarted land dis- posal
Pig Farm Wastes	1	-	Farmer notified - acci- dental discharge
Soot deposit	-	1	Sweep warned - practice stopped
Refuse Coups	-	3	See 'Remedial Action'
Tar and Oil washings	1	-	Referred to Roads Dept.
Sludge (handed into Office)	1	-	Analyst reported de- composing algae
Silage effluents	-	3	Farmers warned
Fish mortality	2	-	(1) Probable Thermal Pollution - Firm warned (2) No cause found
Solid refuse deposits	2	-	(1) See 'Remedial Action' (2) No action required
Sand Washery	-	1	Settling lagoon cleaned out.
Oil	1	-	Under investigation
Pink colour in sewage effluent	1	-	Due to blood from Abattoir.

Appendix A
Rainfall Statistics
River North Esk Catchment Area

Site of Rain Gauge	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	1969 Total Inches
Stables, Glen Lee	8.94	2.91	4.50	3.81	7.40	3.84	1.44	2.89	2.18	1.95	5.75	6.20	51.81
Bridge Of Lee	8.02	2.68	4.25	3.75	7.75	3.63	1.23	2.57	1.97	1.52	3.74	4.41	45.52
Inchgrundle, Loch Lee	8.65	2.65	4.00	2.95	7.81	3.83	1.46	2.34	2.06	1.52	3.39	4.91	45.57
Invermark, Loch Lee	7.88	2.69	3.79	2.83	7.80	3.89	1.06	2.61	1.95	1.47	3.22	4.71	43.90
Whitehillocks, Glen Esk	7.69	2.73	5.17	2.52	7.41	3.92	1.05	2.34	2.09	1.50	2.69	5.51	44.62
R.A.F. Station, Edzell	4.48	1.90	2.65	2.58	6.01	2.86	NO RECORDS AVAILABLE						
Kinnaber, Montrose	RECEIPT OF RECORDS COMMENCED												2.29

River North Esk

Date	24.4.69		20.5.69		19.6.69		10.7.69		20.8.69		11.9.69		16.10.69	
	BOD	Class'n	BOD	Class'n	BOD	Class'n	BOD	Class'n	BOD	Class'n	BOD	Class'n	BOD	Class'n
1. Above Edzell	0.89	V.C.	1.32	C.	1.26	C.	1.13	C.	-	C.	1.32	C.	0.7	V.C.
2. Below Edzell	1.32	C.	1.0	C.	1.57	C.	1.54	C.	-	C.	1.7	C.	0.6	V.C.

River South Esk

Date Sampling Point	29.1.69		4.6.69		26.6.69		24.7.69		20.8.69		24.9.69		23.10.69	
	BOD	Class'n	BOD	Class'n	BOD	Class'n	BOD	Class'n	BOD	Class'n	BOD	Class'n	BOD	Class'n
1. Near Kinnaird Viaduct	0.098	V.C.	0.3	V.C.	1.1	C.	1.07	C.	1.63	C.	1.32	C.	1.57	C.
2. Below Brechin	1.32	C.	0.57	V.C.	0.9	V.C.	1.19	C.	1.19	C.	1.13	C.	1.32	C.
3. Above Brechin	1.38	C.	0.75	V.C.	0.75	V.C.	0.56	V.C.	1.13	C.	0.82	V.C.	0.82	V.C.

Appendix B (continued) Other Samples from Streams

Date	Stream	Parts per Million		Remarks
		BOD	Suspended Solids	
29.1.69	Skinner's Burn	3.2	5	For Information
30.1.69	Little Pow Burn	13.5	81	For Information
2.4.69	Buttery Burn	1.2	2	Complaint
27.5.69	Garie Burn, Menmuir	0.4	3	For Information
26.6.69	Un-named Watercourse — Tributary of Lunan Water	401	50	Complaint
12.8.69	Distillery Lade, Kinnaber	1.63	30	Complaint
26.8.69	Buttery Burn	No Pesticidal Residues found		Complaint
28.8.69	Little Pow Burn	3.4	-	For Information
20.10.69	River South Esk (Kinnaird Dyke)	1.57	14	Complaint
6.11.69	River South Esk (Kinnaird Dyke)	1.3	2	For Information
20.10.69	Mill Lade, Brechin	2.07	18	Complaint
6.11.69	Mill Lade, Brechin	1.2	3	For Information
20.11.69	Lunan Water	2.5	13	For Information
14.12.69	Keithock Burn	Light oil evident		Complaint

ABERDEENSHIRE

DEE and DON
BOARD

KINCARDINESHIRE

TAY BOARD

PERTHSHIRE

NORTH SEA

NORTH AND SOUTH ESK PURIFICATION AUTHORITY

Scale Quarter Inch to One Mile

15 Miles

24000 Yards

LEGEND

Sampling Points 1-4 5 x

Rain Gauges

County Boundaries

